



FRANCE
CHICAGO CENTER

Annual Report
2016–2017

THE UNIVERSITY OF CHICAGO

The France Chicago Center (FCC) is devoted to fostering, promoting, and increasing fruitful intellectual exchange between the University of Chicago and France, and to increasing awareness and appreciation of French culture, art, and thought within the University community and beyond. It pursues these goals through structured initiatives—graduate workshops, fellowship and travel grant competitions, public lectures, visiting scholars, and a collaborative research seed-funding program in the sciences—and by working closely with students, faculty, and University-based partners to develop and support France-related grassroots initiatives.

Annual Report 2016–2017

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From the Executive Director



In this annual report, we highlight our various programs for international study, research, and internships, as well as the talented UChicago students whose ambitions came to fruition with support from these programs. The photograph on the cover, for example, was taken by Rachel Kyne (Ph.D. candidate, English), one of the nineteen recipients of FCC fellowships or travel grants. Interspersed between the pages of this report, you will find student quotes and photos that provide glimpses into the projects these students pursued, and insights into how their time abroad helped shaped them as young scholars, professionals, and citizens of the world.

FCC's commitment to student mobility is both strong and longstanding. Over the last 16 years, we have provided more than \$1.2 million to support the travels of more than 200 students; this year, a full 20% of our budget was devoted to student fellowships and travel grants. I'm pleased to report that—through a partnership with the French Ministry of Higher Education and Research—FCC's student mobility offerings will be even more robust next year, with a 66% increase in the number of François Furet Travel Grants to be awarded, and the creation of a prestigious new summer research fellowship.

I'm also pleased to report that this same grant from the French Ministry of Higher Education and Research will also allow us to expand and develop the collaborative scientific research opportunities available through the FACCTS program—described more fully on pages 9 and 10 and in the appendix. This grant, coupled with the generosity of the *Confères* who make up our new Support Council in the Sciences, will allow us to support the efforts of teams of scientists in France and Chicago through seed-funding grants totaling more than \$250,000.

Finally, it is worth noting that our new Dual Ph.D. Degree Initiative—described in more detail on page 6—represents a significant innovation in the academic policies and practices of the University. This experimental initiative represents the culmination of what has been a decade-long effort to bring to Chicago a practice that is already longstanding in Europe, and that provides important opportunities for participating students, as well as substantial benefits to the faculty and institutions that support them.

A handwritten signature in black ink, appearing to read "Robert Morrissey".

Robert Morrissey
Executive Director
France Chicago Center
Benjamin Franklin Professor of French Literature
Department of Romance Languages & Literatures

Facing page

Photograph by Christian Raby, from the FCC-sponsored exhibition: *Pictures of Diversity: Migration and Dreaming Identity*, May 12-June 29 at the Logan Center for the Arts.

I. SUMMARY

The France Chicago Center’s 2016-17 academic year began (in early October) with a brilliant lecture, entitled “Justice in the Service of Equality,” by Christiane Taubira, former Minister of Justice of France. Our year concluded (in late June) with a visit to campus by Edith Heard from the Collège de France, one of the foremost epigeneticists in the world today. Between these two “bookend events,” this summary highlights—in chronological order—some of the more important and visible successes.

In November and December, FCC hosted visits to campus by two distinguished scientists from the Collège de France: Hugues de Thé (Cellular and Molecular Oncology), and Alain Prochiantz (Morphogenetic Processes). Prof. Prochiantz’s visit to Chicago was also the occasion for the signing of a new four-year agreement (convention de coopération) that defines the framework for faculty visits and student exchange designed to forge closer intellectual links between the University of Chicago and the Collège de France.

In January, following a series of meetings in Paris where FACCTS-sponsored research was presented to a public audience, FCC announced seed-funding grants totaling \$241,400 to support 15 transatlantic research partnerships. This represents a 25% increase over last year’s funding levels.

In March, a new experimental dual Ph.D. degree initiative proposed by the France Chicago Center was approved by the Council of the University of Chicago Faculty Senate. This program will be operationalized over the summer and implemented in the fall of 2017. See page 6 for more information.

In April, we learned that the French Ministry for Higher Education and Research will be providing financial support to bolster the FCC’s collaborative research efforts (FACCTS) and its student mobility programs next year.

The figures below provide a thumbnail sketch of FCC’s programming.

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The pages that follow offer a more complete picture of the scale and range of FCC’s programs and activities.

Facing page
Street scene in Paris, photo by Rachel Kyne.



II. NEW EXPERIMENTAL DUAL PH.D. DEGREE INITIATIVE

On March 28, 2017, the Council of the University of Chicago Senate approved a proposal submitted by the France Chicago Center that will allow interested students to pursue Ph.D. degrees both at the University of Chicago and at an institution of higher education in France. This program takes advantage of the wide possibilities for *co-tutelle* already in place at major French institutions, and creates opportunities across the disciplines for departments at the University of Chicago to organize programs with the French institutions best suited to complement their own strengths.

Not only will participating students benefit from the resources of two doctoral programs, they will have opportunities to develop broader, more comprehensive sets of skills and to form more diverse and deeper intellectual bonds with their international peers. It is our hope that this initiative will work to break down institutional barriers to collaboration and enhance fluidity in the pursuit of research projects. From the point of view of the participating departments, this program deepens intellectual interaction with colleagues on both sides of the Atlantic and opens doors to facilitating new creative approaches to fundamental research problems. From the students' point of view, working with two high-caliber directors and departments offers the possibility of benefiting from complementary viewpoints, differing techniques, and alternate approaches.

Students who are already enrolled in a doctoral program at the University of Chicago will apply to the program of interest at an institution of higher learning in France using the normal application procedure and deadlines and must be

admitted to that program. These students will have completed at least one year in a Ph.D. program at the time of application to an institution of higher learning in France and are expected to have completed the second year of the UChicago doctoral degree and associated requirements prior to matriculating at the French institution.

Students enrolled at an institution of higher learning in France will apply to the program of interest at the University of Chicago and will also follow the normal application procedures to be admitted to that program. Like their counterparts in Chicago, these students likely will have completed the first year of a master's degree at the time of application to the University of Chicago and will need to complete the second year of that master's degree before matriculating at the University of Chicago.

Regardless of where students begin their graduate studies, an individualized co-tutelle agreement will specify the details of their courses of study, residency schedules, and timelines for the completion of the two Ph.D. degrees. While students pursuing a dual degree must satisfy the requirements of both doctoral programs, they will write and defend a single dissertation before a committee made up of faculty members from both institutions.

Facing page

A laboratory at the Muséum National d'Histoire Naturelle where Sasha Rohret identified and analyzed a collection of faunal remains from the archaeological site of Iskuder in Somaliland.



“ Professionally, I am a much stronger candidate for academic jobs than I was prior to my research years abroad; my CV looks better, yes, but I have also gained greater language abilities and cultural awareness than can be gained from any amount of coursework or reading, and I have increased my professional network to include scholars I may have otherwise never met. In an intellectual sense, my time in France has perhaps most importantly allowed me to view my work in a larger context of French culture and French academic inquiry. ...Being removed from the University of Chicago, while challenging in some ways, has also enabled me to grow more independently as a scholar.

The most significant benefit, however, is personal. I did not come to France alone, but rather I came with my husband and son, now 7. We spent a year [in France] on an exchange fellowship with the Ecole Normale Supérieure, and then were able to remain another year through the Collège de France fellowship. This additional year allowed me to accomplish certain things that

I was not able to accomplish during my first year, such as viewing manuscripts and working with Michel Zink. It also allowed us, as a family, to push past the challenges of a first year abroad, into the rewards of the second. Not that the challenges went away, but we became better at adapting to them, and efforts that we put into our life for a year began to pay off, whether through our son becoming fully bilingual, or through us becoming more engaged with our community...

Through these experiences, I have also gained greater empathy for what it means to be a foreigner, and the potential struggles and isolation that entails. My view of the world around me is different; my view of myself is different. I am only just beginning to fully realize and take stock of the ways in which the past two years have influenced me.”

Jacqueline Victor
Ph.D. student in RLL
Collège de France Research Fellowship
August 1, 2016 through July 1, 2017

“ In the course of completing my internship I learned a great deal about the history of Paris and the [Musée] Carnavalet’s collections, which I anticipate will directly influence both my current dissertation work and my future research direction. Moreover, I was initiated into the broader world of public museums and French bureaucracy. There is no doubt that this internship gave me an opportunity that few Americans will ever experience: to peer behind the public façade and witness the life of a French museum after hours and behind the scenes.”

Emily Rap
Ph.D. student in History
FCC Internship Travel Grant
June 18, 2016 through July 26, 2016

III. PROGRAMS AND INITIATIVES

A. STUDENT MOBILITY

Fellowships

Jacqueline Victor, Ph.D. candidate in Romance Languages & Literatures, received a Collège de France Research Fellowship (\$26,000) to conduct dissertation research on women and mobility as represented in Old French verse romances of the twelfth and thirteenth centuries, under the guidance of Michel Zink. Fall, Winter, & Spring

Rachel Kyne, Ph.D. candidate in the Department of English, received a Collège de France Research Fellowship (\$18,000) to conduct dissertation research on the relationships between the *Annales* school and Samuel Beckett, under the guidance of Antoine Compagnon. Winter & Spring

Bevin Blaber, Ph.D. candidate in the Divinity School, received a Sciences Po Exchange Fellowship (\$13,500, \$12,000 of which was financed by Sciences Po) to conduct dissertation research on philosophical writings of Maurice Blanchot in the 1930's, under the guidance of Gerd-Rainer Horn at the Institute d'Etudes Politiques de Paris (Sciences Po). Winter & Spring

Amélie Férey, a Ph.D. candidate in Political Science at Sciences Po in Paris, received an FCC Sciences Po Exchange Fellowship (\$15,500) to pursue dissertation research in Chicago on justifications for target killings in Israel and the United States, under the guidance of Jennifer Pitts. Fall & Winter

John Cropper, a Ph.D. candidate in History, received an EHESS Exchange Fellowship (\$12,000, financed by the EHESS) to pursue dissertation research on energy production and use in Senegal at the Ecole des Hautes Etudes des Sciences Sociales in Paris. Winter & Spring

Aléanor Cadiot, a Ph.D. candidate in History, received an EHESS Exchange Fellowship (\$12,000) to pursue dissertation research at the University of Chicago. Winter & Spring

Research & Language Study Travel Grants

Boxuan Zhou, a Ph.D. candidate in Chemistry, received a Collège de France Science Research Travel Grant (\$6,000) to conduct dissertation research in the lab of Prof. Edith Heard. Spring

Yue Yuan, a Ph.D. student in Economics, received a François Furet Travel Grant (\$3000) to conduct dissertation research on urbanization patterns in Europe. Winter & Spring

Johanna Pacyga, a Ph.D. candidate in the Department of Anthropology, received a François Furet Travel Grant (\$2000) to conduct archival dissertation research in Chevilly-Larue and Paris. Spring

Nicholas O'Neill, a Ph.D. candidate in the Department of History, received a François Furet Travel Grant (\$2000) to conduct archival dissertation research in Rouen, Limoges, and Paris. Summer

Hansong Li, a third-year student in the College, received a François Furet Travel Grant (\$2000) to conduct BA-paper research on rural political and military life in ancien régime France. Summer

Sasha Rohret, a Ph.D. candidate in the Department of Anthropology, received a François Furet Travel Grant (\$2000) to pursue further zooarcheological training at the Muséum national d'histoire naturelle in Paris. Summer

Caitlin Hoff, a Ph.D. student in the Department of Romance Language & Literatures, received a François Furet Travel Grant (\$2000) to pursue intensive advanced language study at the Sorbonne. Summer

Bastien Craipain, a Ph.D. candidate in the Department of Romance Language & Literatures, received a François Furet Travel Grant (\$2000) to conduct archival research at the Société d'Anthropologie and other archives in and around Paris. Summer

Internship Travel Grants

Alejandro Basurto Diaz, a student in the Harris School of Public Policy, received an FCC internship travel grant (\$4000) to pursue an internship opportunity in the Political and Economic Affairs Section at the Embassy of Mexico in France. Summer

Hiroshi Akai, a student in the Harris School of Public Policy, received an FCC internship travel grant (\$4000) to pursue an internship opportunity at the Organization for Economic Cooperative Development (OECD) in Paris. Summer

Lauren Wade, a student at the School of Social Service Administration, received an FCC internship travel grant (\$2000) to pursue an internship opportunity with the Mennonite Central committee (MCC) in Burkina Faso. Summer

Emily Rap, a Ph.D. student in History, received an FCC Internship Travel Grant (\$1500) to pursue an internship at the Musée Carnavalet in Paris. Summer

Kate Clairmont, a Master of Arts Program in the Humanities student, received an FCC Internship Travel Grant (\$1500) to pursue an internship at the Musée de l'Hôtel Sandelin through the French Heritage Society. Summer

B. COLLABORATIVE RESEARCH IN THE SCIENCES (FACCTS)

FACCTS is a program designed to enhance science at the University of Chicago, Argonne National Laboratory, and Fermilab by encouraging closer ties between Chicago researchers and high-level research teams in France. It accomplishes this goal by providing seed-funding opportunities to complementary labs that take innovative approaches to solving complex problems and show potential for successful and sustainable collaboration.

In 2017, the FACCTS program received a total of 25 applications, with applicants requesting a total of \$545,766. Fifteen projects were selected—seven in the Physical Sciences, five in the Biological Sciences, two at Argonne National Laboratory, and one at Fermilab—each receiving commitments ranging from \$7,200 and \$24,900. A total of \$241,400 was committed to the projects described in the table on page 10.



Christiane Taubira (former French Minister of Justice) engaged in conversation over lunch with UChicago students, faculty, and Consular officials.

C. SCHOLARLY VISITS AND EVENTS

Visiting Scholars

Christiane Taubira, former Minister of Justice, came to Chicago to meet with faculty and students and to give a Marianne Midwest lecture. October 8-12, 2016. Hosted by Jennifer Wild (Cinema & Media Studies) and Mary Anne Case (Law School)

Alain Dieckhoff, Senior Research Fellow at CNRS, Director of CERI, and professor at Sciences Po. October 15-18, 2016. Hosted by Paul Staniland (Political Science)

Maxime Ducout, Assistant Professor (Maître de conférences) in French Literature at the Université de Lille 3. October 20-23, 2016. Hosted by Alison James (Romance Languages & Literatures)

Pap NDiaye, Professor of North American History at Sciences Po, came to campus to give two talks—including a Marianne Midwest lecture. November 9-12, 2016. Hosted by Michael Dawson (Political Science)

Hugues de Thé, Professor of Cellular and Molecular Oncology at the Collège de France. November 28 to December 1, 2016. Hosted by Wei-Jen Tang (Ben May Department for Cancer Research)

PROJECT TITLE	CHICAGO PRINCIPAL INVESTIGATOR	DEPARTMENT	KEY INDIVIDUAL IN FRANCE	INSTITUTION IN FRANCE	AMOUNT OF AWARD
Active chiral fluids	William Irvine	Physics	Denis Bartolo	ENS Lyon	\$20,000
Black holes in string theory	Emil Martinec	Physics, Enrico Fermi Institute	Iosif Bena	CEA Saclay	\$20,000
Development of a kg-size dark matter detector based on the CCD technology	Paolo Privitera	Astronomy & Astrophysics	Mariangela Settimo	IN2P3 / CNRS	\$7,200
Multiscale matrix decompositions for machine learning	Risi Kondor	Computer Science	Rémi Gribonval	INRIA Rennes	\$12,000
Magnetic sponges	John Anderson	Chemistry	Jeon Ie-Rang	Université de Rennes	\$15,000
Investigating filopodia formation through an interdisciplinary approach	Gregory Voth	Chemistry	Patricia Bassereau	Institut Curie	\$16,400
Heterogeneous models with propagation on networks	Andrei Tarfulea	Mathematics	Jean-Michel Roquejoffre	Université Paul Sabatier Toulouse	\$9,740
Exploring adaptive responses to pH variability in the face of ocean acidification	Catherine Pfister	Ecology & Evolution	Jean-Pierre Gattuso	CNRS	\$24,900
Novel hybrid simulation methods for the modeling of the protein assemblies in the respiratory chain	Benoit Roux	Biochemistry, Molecular Biology	Chris Chipot	CNRS, Université de Lorraine	\$20,000
Testing how eye movements affect the neural code for natural motion	Jason MacLean	Neurobiology	Olivier Marre	Université Pierre et Marie Curie	\$15,000
Evolution of resistance genes in plants	Joy Bergelson	Ecology & Evolution	Fabrice Roux	CNRS, INRA	\$10,160
Harnessing space and time in the transmission dynamics of vector-transmitted infections	Mercedes Pascual	Ecology & Evolution	Richard Paul	Institut Pasteur	\$16,000
Scalable data movement for data-centric supercomputing	Venkatram Vishnawath	Argonne, Leadership Computing Facility	Emmanuel Roquejoffre	Université Paul Sabatier	\$20,000
Coherent x-ray studies of phase transitions in the complex oxides	Dillon Fong	Argonne, Materials Science Division	Hubert Renevier	SUBATECH, Nantes, IN2P3, CNRS	\$20,000
Dark matter and satellite galaxies in the era of LSST	Alex Drlica-Wagner	Fermilab, Particle Astrophysics	Johann Cohen-Tanugi	Université de Montpellier, CNRS	\$15,000

More information on the application pool and on each supported project is available in the appendix.

Xavier Wrona, practicing architect and Associate Professor at the Ecole Nationale Supérieure d'Architecture de Saint-Etienne. November 2016 and May 2017. Hosted by W.J.T. Mitchell (English)

Alain Prochiantz, Professor of Morphogenetic Processes at (and Director of) the Collège de France. December 3-10, 2016. Hosted by Urs Schmidt-Ott (Organismal Biology & Anatomy)

Daniele Lorenzini, post-doctoral researcher at Université Paris 1 Panthéon-Sorbonne. March 9-12, 2017. Hosted by Arnold Davidson (Divinity School, Philosophy)

Françoise Lavocat, Professor of Literature and Comparative Literature at Sorbonne Nouvelle. March 18 to June 20, 2017. Hosted by Alison James (Romance Languages & Literatures)

Eric Fassin, Professor of Political Science at Université de Paris VIII Saint-Denis-Vincennes. March 29 to April 2, 2017. Hosted by Jennifer Cole (Comparative human Development)

Anne Lafont. Assistant Professor (Maître de conférences) in Modern Art History at the National Institute of Art History (INHA), which is part of the Université Paris Est Marne-la-Vallée. April 15-22, 2017. Hosted by Cécile Fromont (Art History)

Catherine Malabou, French philosopher (with diplomas from ENS and EHESS) who currently teaches at the Centre for Research in Modern Philosophy at Kingston University. April 30 – May 7, 2017. Hosted by W.J.T. Mitchell (English)

François Déroche, Professor of the History of the Qur'an Text and Transmission at the Collège de France. May 17-20, 2017. Hosted by Fred Donner (Near Eastern Languages & Civilizations)

Edith Heard, Professor of Epigenetics and Cellular Memory at the Collège de France. June 21-23, 2017. Hosted by Marcelo Nobrega (Human Genetics)

Conferences

From Quantitative to Qualitative Analysis: New Perspectives on Research in Social History

October 14, 2016, at the Neubauer Collegium for Culture and Society. With the participation of **Paul Maneuvrier-Hervieu** (Université de Caen), **Allan Potofsky** (Université de Paris Diderot), **Paul Girard** and **Guillaume Plique** (Médialab, Sciences Po), **Loïc Charles** (Université de Paris 8), and **Silvia Marzagalli** (Université de Nice). Organized by Paul Cheney.

Collaborative Transatlantic Scientific Research

January 20, 2017, at the University of Chicago Center in Paris. With the participation of **Kumiko Kotera** (Institut d'Astrophysique de Paris, CNRS), **Emmaunelle Lacaze** (Institute des NanoSciences de Paris, CNRS), **Claire Wyart**, (Institut du Cerveau et de la Moelle épinière, CNRS), and **Eric Collet** (University of Rennes).

Foucault & Religion

March 10-11, 2017, in Swift Hall. With the participation of **Daniele Lorenzini** (Université Paris 1 Panthéon-Sorbonne). Organized by Maureen Kelly.

Thought and Action in the Renaissance

March 29-30, 2017, at the Franke Institute for the Humanities. With the participation of **Denis Crouzet** (Université Paris-Sorbonne), **Mireille Huchon** (Université Paris-Sorbonne), **Thierry Gontier** (Université Lyon 3), **Marie-Christine Gomez-Géraud** (Université Paris-Nanterre), **Véronique Ferrer** (Université Bordeaux Montaigne), **Jean Balsamo** (Université de Reims-Champagne-Ardenne), and **Frank Lestraingant** (Université Paris-Sorbonne). Organized by Philippe Desan.

Mobizing Gender: Secularism, Nation, and Remaking Europe

March 31, 2017, at Wilder House (5811 S. Kenwood Avenue). **Eric Fassin** (ENS) was the keynote speaker at this conference. Organized by Jennifer Cole.

Back to Facts?

April 4, 2017, at the Neubauer Collegium for Culture and Society. With the participation of **Françoise Lavocat** (Sorbonne Nouvelle) and **Alexandre Gefen** (CNRS, Sorbonne). Organized by Alison James.

L'auteur, la personne et l'internet: savoirs et imaginaires en réseau

April 11, 2017, in Wieboldt Hall, #130. With the participation of **Jacques Anthanase Gilbert** (Université de Nantes), **Laurent Loty** (CNRS, Sorbonne), and **Véronique Taquin** (writer, novelist, filmmaker). Organized by Alison James.

Querelle des Femmes

April 21-22, 2017 at the Center for the Study of Gender and Sexuality (5733 S. University Avenue). With the participation of **Laure Bereni** (CNRS, Centre Maurice Halwachs), **Eliane Viennot** (Emeritus, Université de Saint-Etienne), and **Camille Froidevaux-Metterie** (Université de Reims, Sciences Po). Organized by Daisy Delogu and Alison James.

Scripts and Scripture: Writing and Religion in Arabia, 500-700 CE

May 18-19, 2017, in the Swift Hall Common Room. With the participation of **François Déroche** (Collège de France), **Laïla Nehmé** (CNRS), and **Julian Christian Robin** (CNRS). Organized by Fred Donner.

Fact and Fiction: Creation, Forms, Boundaries

May 19-20, 2017, at the Neubauer Collegium for Culture and Society. With the participation of **Françoise Lavocat** (Sorbonne Nouvelle), **Christian Raby** (Paris-based independent photographer), and **Olivier Caïra** (Université d'Evry-Val-d'Essonne). Organized by Alison James.

Public Lectures

Christiane Taubira (former Minister of Justice in France) gave a public lecture entitled "Justice in Service of Equality." October 10, 2016, in Assembly Hall at International House

Alain Dieckhoff (Science Po, CERI, CNRS) gave a public lecture entitled "Nationalism and the Multination State." October 17, 2016, in the Social Sciences Research Building, #224

Rémi Brague (Emeritus, University of Paris-Sorbonne) gave a public lecture entitled "The Near East in the First Millenium: A Bird's Eye View." October 19, 2016, Classics #110

Maximes Ducout (Université Lille 3) gave a public lecture entitled "Actualités de Patrick Modiano." October 21, 2016, in Wieboldt Hall #207

Pap NDiaye (Sciences Po) gave two public lectures entitled: 1) "The French Debate on Reparations for Slavery: a Pragmatic Approach." November 10, 2016 (12:00 pm), in Social Sciences Research Building, #224; and 2) "The Minority Paradox: Blackness in France." November 10, 2016 (6:30 pm) at the Centers for Gender/Race Studies #105

Hugues de Thé (Collège de France) gave a thee public seminars entitled: 1) "Arsenic, a targeted therapy of acute promyelocytic leukemia." November 29, 2016, at the Feinberg School of Medicine, downtown; 2) "PML nuclear bodies, unexpected effectors of acute promyelocytic leukemia cure." November 30, 2016, at the Gordon Center for Integrated Research, #301; and 3) "Retinoids and cancer biology." November 30, 2016, in KCBD #1103

Alain Prochiantz (Collège de France) gave a public seminar entitled "Homeoprotein intercellular transfer, a novel signaling pathway in brain development and physiology." December 8, 2016, in KCBD #1103

Anne Lafont (Université Paris Est Marne-la-Vallée) gave a public talk entitled "How Skin Color became a Racial Marker? The Contribution of Art in the Eighteenth Century." April 13, 2017, in the Cochrane Woods Art Center

Roundtable discussion at the opening of the photo exhibition *Pictures of Diversity: Migration and Dreaming Identity* by Christian Raby. Seated from left to right: Jennifer Wong, Chrysanthi Koutsiviti, Joe Joseph, and Miki Takeshita.



Catherine Malabou (Kingston College) gave a three public lectures: 1) “Between Realism and Materialism: The New Adventures of Critical Theory.” May 1, 2017, at the Franke Institute for the Humanities; 2) “The Biological and the Symbolic.” May 3, 2017, at the Franke Institute for the Humanities; and 3) “Are There Still Traces?” May 5, 2017, in the Swift Hall Common Room

Edith Heard (Collège de France) gave two public lectures entitled: 1) “X-chromosome inactivation: when structure meets function.” June 22, 2017, at KCBD #1103; and 2) “The Dynamic Genome: genes, repeats and heterochromatin.” June 23, 2017, in KCBD #110

Workshops

Interdisciplinary Workshop on Modern France and the Francophone World

These sessions bring together UChicago faculty members and advanced graduate students in various departments to discuss papers or drafts of book chapters submitted by faculty members or dissertation chapters submitted by graduate students. All papers are pre-circulated in advance, in order to facilitate deeper and more nuanced discussion.

Workshop on Interdisciplinary Approaches to Modern France and the Francophone World brings University of Chicago advanced graduate students and faculty together with scholars from the Chicago area and beyond to work collaboratively in furthering each other’s work on French and francophone studies through thoughtful and rigorous critiques. The workshop helps presenters to refine their thoughts before submission and publication, and it also challenges them to articulate the importance of their work in context and to answer specific and often unforeseen questions and concerns about their research.

University faculty members and outside guests who present at our workshop also model to students how scholars in other stages of their careers work through the process of writing and developing new scholarly ideas and projects. We offer students the opportunity to observe their professors offering scholarly critiques of other people’s work, and students are encouraged to offer comments themselves. The workshop teaches graduate students how to be astute readers of texts, offer insightful comments and questions, and become colleagues who support and challenge each other to produce their best possible work.

Our workshop also allows faculty and students to get to know one another’s ideas beyond the classroom, through debate and also through more informal receptions, post-workshop dinners, and annual social gatherings such as our fall quarter potluck and spring quarter barbeque. These events also allow students who are relatively new to the program to get to know more advanced students, whom they might otherwise never meet. Furthermore, graduate students are heavily involved in choosing and inviting the guest speakers who present at the workshop, providing valuable networking opportunities and offering occasions for students to interact deeply and at length with eminent scholars from around the country.

September 30: **Oana Panaïté**, Associate Professor of French, Indiana University Bloomington, “The Colonial Fortune: Primal Scenes in Contemporary Fiction.” 4:00 PM in SSRB #224

October 14: **Rebecca Crisafulli**, Ph.D. candidate in Romance Languages and Literatures, University of Chicago, “Reading Louise d’Épinay’s *L’Histoire de Madame Montbrillant* as Educational treatise.” 4:00 PM in Classics #111

October 19: **Alice Kaplan**, Professor of French, Yale University, “Literary Publishing in a Dictatorship: Notes for an essay on the Editions Barzakh, Algiers.” 12:00 PM in SSRB #224

October 28: **Jennifer Wild**, Associate Professor of Cinema and Media Studies, University of Chicago, “The Chaplin Files.” 4:00 PM in SSRB #224

November 11: **Gregory Valdespino**, Ph.D. student in History, University of Chicago, “‘Against the Dead Past, the Future is Broken’: Mourning and Imperial Community after the Mount Pelée Eruption.” 4:00 PM in SSRB #224

January 6: **Leora Auslander**, Professor of History, University of Chicago, “Civic Materialism: Everyday Nation-Making in Paris and Berlin.” 4:00 PM in SSRB #224

January 20: **Elisa Jones**, Ph.D. candidate in History, University of Chicago, “Democratizing a Noble Privilege: The French Monarchy’s Response to the Crisis of Religious Pluralism.” 4:00 PM in SSRB #224

February 3: **Sara Hume**, Associate Professor of History, Kent University, “Alsatian Traditional Dress and Religious Performance.” 4:00 PM in SSRB #224

“My stay in Paris has had an incalculable effect on my intellectual outlook. The dissertation research I proposed to conduct, from my perch in Chicago, seemed speculative, unlikely, and perhaps even indulgent. While not providing the material I expected, my stay here has rewarded my hunches in ways that I could not imagine, and truly broadened me as a thinker and a scholar. Personally, I have found an experience of home. As an anglophone Canadian, it surprises me sometimes that I feel more at home in France than I do in the United States. That sense of belonging, of growth, support and challenge, is indescribable. I have rediscovered a culture where my love of history and literature is encouraged at every turn, from the preponderance of readers in the Metro and the used bookstores in the Quartier Latin to the heated discussions about history and contemporary politics overheard in the street and at the market. Living in the active and multicultural neighbourhood of Château Rouge has exposed me to such a bigger francophone world than I have yet experienced in my travels. I lived between Malians, Senegalese, and Guyanese, bought my oranges from Moroccans, my almonds from Tunisians, and my tea from Algerians. The neighbourhood is vibrant, alive, and creative—truly a contemporary France. I was a painting student for five months at the Ecole Nationale Supérieure des beaux-arts 13 years ago during my Bachelor’s degree. When preparing for this trip, I assumed that no experience could possibly be as stimulating, rich, and transformative as those months when I was 20. However, the urban community, the personal friendships, the intellectual encouragement, the sheer delight of linguistic play and cultural immersion, and, of course, the art in Paris have left me transformed once again. I am returning home a different person—more confident, more joyous, more intense about my work and about my play, and determined to return to France.”

Rachel Kyne
Ph.D. student in English
Collège de France Research Fellowship
December 31, 2016 through June 3, 2017

(Right): Emily Rap, Ph.D. student in History, at the Musée Carnavalet where she conducted an FCC-sponsored summer internship.



“This trip enabled me to confirm the viability of my dissertation project and gain information that I believe directly led to the success of my Fulbright application. It also allowed me to make contacts with experts in the field that I anticipate building a professional relationship with in the future. Finally, any time spent further connecting with the French language and culture is always a true joy.”

Nicholas O’Neill
Ph.D. student in History
François Furet Travel Grant
July 10, 2016 through July 30, 2016

February 17: **Mollie McFee**, Ph.D. candidate in Comparative Literature, University of Chicago, “The Akademi Kreyòl Ayisyen: A Language Academy for the Global Age.” 4:00 PM in SSRB #224

March 3: **David Ansari**, Ph.D. candidate in Comparative Human Development, University of Chicago, “Don’t be too psychological’: How Student Therapists learn to Think, Act, Speak in Mental Health Services for Immigrant Patients in Ile-de-France.” 4:00 PM in SSRB #224

March 29: **Aliénor Cadot**, Ph.D. Student in History at the Ecole des Hautes Etudes en Sciences Sociales, “Between Colonial Situation and Fascism: Categorization and Migration of Algerian Civilians (1939-1943).” 12:00 PM in SSRB #224

April 14: **Emily Fransee**, Ph.D. student in History, University of Chicago, “From the Black Invasion to the Conquerors of Mars: Speculative Fiction and Empire in Late Nineteenth-Century France.” 4:00 PM in SSRB #224

April 26: **Carolyn Eichner**, Associate Professor of History, University of Wisconsin-Milwaukee, “Translating Culture and Time: Legends, Politics, and the French-Kanak Colonial Encounter.” 12:00 PM in SSRB #224

May 12: **Nicholas O’Neill**, Ph.D. student in History, University of Chicago, “The Politics of Taste and Trade: The State and the Porcelain Industry in France, 1720-1830.” 4:00 PM in SSRB #224

May 26: **Alison James**, Associate Professor of French Literature, University of Chicago, “Paper Witnesses: Documentary Writing and Postwar Memory.” 4:00 PM in SSRB #224

Interdisciplinary Workshop in Paris

The Interdisciplinary Workshop in Paris functions similarly to the “Modern France” workshop, but with a core group of participants being the faculty and students in research residency at the University of Chicago Center in Paris. All sessions are public, and scholars and students from outside the university are encouraged to participate as well.

October 26: **Oliver Cussen**, Ph.D. candidate, Department of History, “The Financier and the *Philosophe*: French Commercial Imperialism after the John Law System.”

November 16: **Yuliya Tsutserova**, Ph.D. candidate, Continental Philosophy, Religion, & Visual Arts, The Divinity School, “The Kantian Turn from the Subjectivity of Space and Time to the Spatiality and Temporality of the Subject.”

December 6: **Jennifer Timmons**, Ph.D. candidate, Department of History, “The Poison Trial of John the Evangelist.”

January 10: **Jacqueline Victor**, Ph.D. candidate, Romance Languages & Literatures, “The Woman as Jongleur in the *Roman de Silence*.”

January 17: **David Ansari**, Ph.D. candidate, Department of Comparative Human Development, “Developing socio-cultural and linguistic expertise in mental health services for migrants and refugees in France.”

January 24: **Claire Jenson**, Ph.D. candidate, Department of Art History “Patronage and Politics in the Breviary of Renaud de Bar.”

February 14: **Ji Gao**, Ph.D. candidate, Department of Romance Languages & Literatures, “Publier les textes religieux durant les guerres de religion: Roville, Rigaud, et les libraires Lyonnais.”

March 7: **Tommaso Sabbatini**, Ph.D. candidate, Department of Music, “Beyond Opera and Musical Theatre: Rethinking Nineteenth-Century Parisian Theatre with Music through the Lens of *Féerie*.”

March 14: **John Cropper**, Ph.D. candidate, Department of History, “Fueling the Pre-colonial State: Food Energy, Drought, and Decline in the Senegal Valley, 1700-1800.”

March 21: **Nancy Thebaut**, Ph.D. candidate, Department of Art History, “*Ad Orientem*: Seeing Christ’s Back in the Early Medieval Ascension.”

April 18: **Chiara Nifosi**, Ph.D. student, Romance Languages and Literatures, «Dire le temps par l’espace: naissance d’une métaphore Proustienne.»

May 2: **Kenneth Yu**, Ph.D. candidate, History of Religions, The Divinity School, “The Aristotelian Foundations of a New Human Science in the Hellenistic Age.”

May 23: **Charles Fawell**, Ph.D. candidate, Department of History, “*Une effervescence malsaine*: Cohabitation and Disorder on the French Colonial Steamship, 1880-1920.”

D. INITIATIVES IN THE ARTS

Visiting Artists

Kapwani Kiwanga, Paris-based multi-media artist, who came to Chicago for the opening of her FCC-sponsored exhibition at the Logan Center. January 15-22, 2017

Christian Raby, Professor of philosophy, language pedagogue, and Paris-based independent photographer. March 16 – June 10, 2017

Film Screenings

The France Chicago Center partnered with DOC Films and the Office of Cultural Services in Washington and the Consulate of France in Chicago to present the following 10 films by Robert Bresson on our campus during the spring quarter of 2017.

A Man Escaped

1956, 100 minutes, 35mm
March 29, at 7:00 pm & 10:00 pm

Lancelot du Lac

1974, 85 minutes, 35mm
May 3, at 7:00 pm & 9:00 pm

Au Hasard Balthazar

1966, 95 minutes, 35mm
April 5, at 7:00 pm & 9:00 pm

Les Anges du Péché

1943, 96 minutes, 35mm
May 10, at 7:00 pm & 9:00 pm

Une Femme Douce

1969, 88 minutes, DCP
April 12, at 7:00 pm & 9:00 pm

The Trial of Joan of Arc

1962, 65 minutes, 35mm
May 17, at 7:00 pm & 9:00 pm

Pickpocket

1959, 79 minutes, 35mm
April 19, at 7:00 pm & 9:00 pm

The Devil, Probably

1977, 96 minutes, 35mm
May 24, at 7:00 pm & 9:00 pm

Les Dames du Bois de Boulogne

1945, 96m, 35mm
April 26, at 7:00 pm & 9:00 pm

L'Argent

1983, 87 minutes, 35mm
May 31, at 7:00 pm & 9:00 pm



French saxophonist, Jean-Luc Guionnet (center), speaking during a roundtable discussion on May 7, 2017 at the Logan Center for the Arts.

Concerts

Bridge #7 Performance and Roundtable Discussion

Tuesday, November 8, 2016, in the Performance Penthouse of the Logan Center, #901

Khari B (spoken work), **Jeb Bishop** (trombone), **Frédéric Bargeon-Briet** (bass), **Magic Malik** (flute), **Guillaume Orti** (saxophone), and **Tyshawn Sorey** (drums). The discussion following the concert was moderated by **Travis Jackson** (UChicago) and **Alexandre Pierrepont** (The Bridge).

Bridge #13 Performance and Roundtable Discussion

Sunday, May 7, 2017, in the Performance Penthouse of the Logan Center, #901

Jim Baker (piano & keyboards), **Jason Roebke** (bass), **Pierre-Antoine Badaroux** (alto saxophone), and **Jean-Luc Guionnet** (alto saxophone). The discussion following the concert was moderated by **Sam Pluta** (UChicago) and **Alexandre Pierrepont** (The Bridge).



(left): Bridge #7, playing at the Logan Center on November 8, 2016. Left to right: Sam Pluta, Tyshawn Sorey, Guillaume Orti, Khari B, & Jeb Bishop. Not pictured: Frédéric BBriet and Magic Malik.
(below): Bridge #13 performing at the Logan Center on May 7, 2017. Left to right: Jim Baker, Jean-Luc Guionnet, Jason Roebke, and Pierre-Antoine Badaroux.



Art Exhibitions

Classicisms

February 16 through June 11
Smart Museum of Art

This exhibition seeks to explode the idea of classicism as an unchanging ideal, and features 70 objects spanning diverse genres, eras, and media—paintings, ancient and modern sculpture, cast plaster replicas, and works on paper. Together with a scholarly catalogue, the exhibition traces classicism's meanings across the centuries from varying artistic, cultural, and ideological perspectives to reveal a multifaceted concept with a complicated history.



Jean-Baptiste Regnault, *Socrates Tearing Away Alcibiades from the Embrace of Sensuality*, 1785, Oil on canvas. Smart Museum of Art, The University of Chicago, Purchase, The Paul and Miriam Kirkley Fund for Acquisitions, 2013.31.



(left): Roman, Imperial period, *Aphrodite from Aphrodisias*, 2nd century, Carved marble. Smart Museum of Art, The University of Chicago, The F.B. Tarbell Collection, Gift of E.P. Warren, 1902, 1967.115.413.

(below): Installation view of *Classicisms* at the Smart Museum of Art. Photo by Michael Tropea.





Kapwani Kiwango: *The Sum of its Parts*

January 20 through March 12
Logan Center, Main Gallery

Based in Paris, Kapwani Kiwango produces works across installation, performance, and video that marry her training in anthropology and comparative religions with her interests in history, memory, and mythology. In this exhibit, her first solo exhibition in the United States, Kiwango presented a site-specific installation, video, and prints that draw on the artist's research into the design of institutional spaces, including materials found in the University of Chicago's Special Collections Library.

Pictures of Diversity: *Migration and Dreaming Identity*

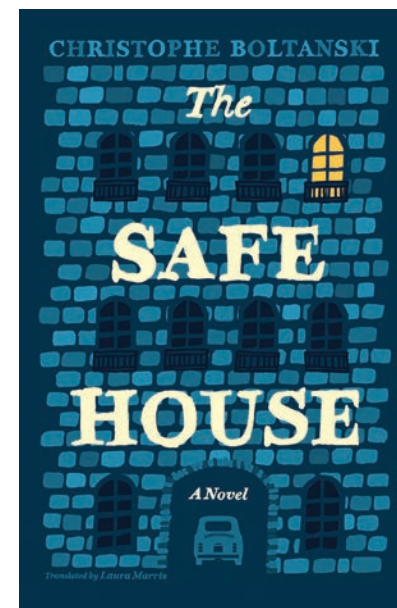
May 12 through June 29
Logan Center, Logan Café

In part 1 of the exhibition (May 12-25), Christian Raby presents photographic portraits of immigrants in France in settings where elements of the subjects' native and adopted cultural identities combine and interact. In part 2 (May 26-June 29), UChicago students present portraits of immigrants in Chicago—with short biographies of each subject—that they created and realized under Raby's guidance.

E. COLLABORATION WITH THE UNIVERSITY OF CHICAGO PRESS

The France Chicago Center helps to bring seminal French-language works of literature and scholarship to an English-speaking public. During the previous academic year, two such books were published by the University of Chicago Press: the English translation of the second volume of Michel de Certeau's *La Fable mystique*, under the title *The Mystic Fable, Volume Two* (December 2015), and the English translation of Henry Rousso's *La Dernière catastrophe: l'histoire, le présent, le contemporain*, under the title *The Latest Catastrophe: History, the Present, the Contemporary* (June 2016).

This year, FCC provided funding for the English translation of Christophe Boltanski's first novel *La cache*, which will be published by the University of Chicago press in October of 2017 under the title *The Safe House*. The following review quote by Patricia Hampl will appear on the cover:



“Maybe every memoirist, meditating on the past, inevitably writes fiction, but Christophe Boltanski's entrancing novel walks the high wire between memory and imagination with exceptional grace, wit—and deadly force. A brilliant, moving, and entirely original work of art, which is to say a work of truth, as if a century, rather than a man, had written its memoir.”

IV. FINANCIAL SUMMARY¹

FCC Revenue:

Endowment Revenue ²	\$155,600
Unrestricted Support from University of Chicago Units ³	\$35,000
Programmatic Support from University of Chicago Units ⁴	\$208,700
Programmatic Support by National Laboratories ⁵	\$55,000
Programmatic Support from the French Ministry of Foreign Affairs ⁶ . . .	\$12,800
Programmatic Private Donors ⁷	\$41,300
Total	\$508,400

Expenditures:

Student Mobility ⁸	\$106,200
Collaborative Research in the Sciences (FACCTS) ⁹	\$241,400
Scholarly Visits and Events ¹⁰	\$75,100
Initiatives in the Arts ¹¹	\$25,500
UChicago Press Collaboration	\$3,500
Administrative Expenses ¹²	\$56,600
Total	\$508,300

1 This financial summary was finalized prior to the end of fiscal year 2017. For that reason some figures are based on projections. All figures are rounded to the nearest hundreds.

2 FCC endowment value as of 3/31/17 was \$3,080,060. The payout formula is determined by the University of Chicago Board of Trustees.

3 This figure includes unrestricted support from the Harris School of Public Policy, the Division of the Humanities, the Division of the Social Sciences, the School of Social Service Administration, and the Divinity School.

4 This figure includes contributions from 5 different units in support of: FACCTS, The Collège de France Exchange initiatives, The Bridge concerts and discussion, the Picturing Diversity Exhibition, Marianne Midwest, and the Workshop on Interdisciplinary Approaches to Modern France and the Francophone World.

5 Includes contributions to FACCTS-supported collaborative research by Argonne National Laboratory and Fermilab National Accelerator Laboratory

6 Includes financial contribution to the FACCTS program and to the Marianne Midwest initiative

7 Includes contributions to the FACCTS program by members of FCC's new Support Council in the Sciences

8 Includes 6 fellowships (\$82,200), 8 Research Travel Grants (\$21,000), and 5 Internship Travel Grants (\$13,000)

9 See appendices for more detail

10 16 visiting scholars and artists; 9 colloquia; 28 workshop sessions; 16 public lectures

11 Includes support of French and French-language film screenings in partnership with Doc films and the French Consulate, Bridge concerts, and 3 public art exhibitions

12 Includes salary and benefits for 1 half-time administrator, 2 student workers, and various supplies and services



“This internship was the catalyst for my securing a job after my University of Chicago studies. My husband and I were offered positions with [the Mennonite Central Committee] in Burkina Faso starting in July 2017, for 3 years. In addition to this very concrete benefit, I also learned that I enjoy program evaluation and monitoring and felt fulfilled by the work I was doing this summer. This internship also improved my French language skills. I am looking forward to re-starting my work with MCC this summer and am grateful to the France Chicago Center for providing me with the opportunity to intern in Burkina Faso this summer, and by extension, secure a job for after graduate school.”

Lauren Wade
School of Social Services Administration
FCC Internship Travel Grant
July 5, 2016 through September 1, 2016

“My area of professional interest lies in cultural institutions and their ability to create and spread knowledge, to gather intelligent minds together, and to inspire understanding and growth of both the individual and society. Additionally, the representation of cultural and artistic objects continues to be the focus of my studies and professional life. As such, [my internship at the hôtel Sandelin Museum] has been a tremendous learning opportunity, and I can confidently say that I truly loved working [there]. I hope to continue working in museums in the New York area. Although I did not intend to do museum work when I began my masters at the University of Chicago, after working at the hôtel Sandelin Museum this summer it is definitely something I want to pursue in conjunction with my academic studies... Additionally, I feel extremely lucky to be publishing an article in the museum’s catalogue for

the exhibition that I was assisting with. I hope that with the help of Marie-Lys and my professor who specializes in Shakespeare studies I will be able to contribute in a meaningful way. The work I did this summer solidified my plans to pursue a Ph.D. that combines my interests in Art History and Literature with a focus on the 19th century. It also enabled me to see that I can combine curatorial work and translation with my primary role as a doctoral candidate. It really was one of the very best summers I’ve ever had. I learned a tremendous amount—in terms of developing my language skills and otherwise—that I know I will apply in my professional and academic life. And it was a fantastic interpersonal experience!”

Kate Clairmont
Masters student in the MAPH Program
FCC Internship Travel Grant
June 19, 2016 through August 1, 2016

“... my experiences in the past summer have paved the way to more research trips in the future. Intellectually, I benefited greatly from interaction with Joseph Barou (Centre Social du Montbrison), Benjamin Stora (professeur à l’Université Paris XIII), Annette Becker (professeur à l’Université Paris-Ouest-Nanterre-La-Défense), and many others. Besides scheduled academic activities, I also intermittently audited and watched most of Anne Cheng’s lecture series “Universalité, mondialité, cosmopolitisme (Chine, Japon, Inde)” at the Collège de France. Finally, I’d like to mention that during this visit, the Sorbonne courtyard was being used as the scene for a new movie about the 1960s. I was amused to see posters of Mao, Ho Chi-Minh and Marx everywhere on the wall as I walked into the BIS.”

Hansong Li
History Major in the College
François Furet Travel Grant
August 20, 2016 through
September 25, 2016

(above): A village in Burkina Faso, where Lauren Wade, a student in the School of Social Service Administration, conducted an FCC-supported summer internship.

APPENDIX

Supplemental Information on FACCTS Applications and Awardees

Total FACCTS Applications Received	25	Total Funding Allocated to FACCTS Projects	\$241,400
Applications from Faculty Members in the Physical Sciences (PSD)*	11.5	Allocated to Projects in PSD	\$100,340
Applications from Faculty Members in the Biological Sciences (BSD)*	7.5	Allocated to Projects in BSD	\$86,060
Applications from Researchers at Argonne National Laboratory (ANL)	5	Allocated to the ANL-Based Projects	\$40,000
Applications from Researcher at Fermilab	1	Allocated to the Fermilab-Based Project	\$15,000
Total Funding Requested	\$545,766	Average Amount of Each Request	\$21,831
Total Requested by PSD Faculty*	\$204,979	Average Amount of Each Award	\$16,093
Total Requested by BSD Faculty*	\$169,787	Total Contributions from FACCTS Stakeholders	\$241,400
Total Requested by ANL Researchers	\$156,000	Members of the France Chicago Support Council	
Total Requested by Researcher at Fermilab	\$15,000	in the Sciences (Confrères)	\$41,300
Total Number of FACCTS Grants Awarded	15	Argonne National Laboratory**	\$40,000
Recipients in PSD	7	France Chicago Center	\$35,100
Recipients in BSD	5	Office of the Provost of the University of Chicago	\$25,000
Recipients at ANL	2	Division of the Physical Sciences	\$25,000
Recipient at Fermilab	1	Division of the Biological Sciences	\$25,000
		Office of the EVP for Research, National Laboratories, & Innovation	\$15,000
		Fermilab National Accelerator Laboratory**	\$15,000
		Institute for Molecular Engineering	\$10,000
		Office for Science and Technology at the French Embassy in Washington ..	\$10,000

* For funding and counting purposes, applications and funding requests received from faculty members with appointments in both PSD and BSD were divided equally among the two divisions.

** Argonne National Laboratory and Fermilab National Accelerator Laboratory participate in FACCTS by encouraging researchers in their respective national laboratories to submit proposals, and by providing financial support to the most highly rated proposals as judged by the FACCTS committee.

Active chiral fluids

Chicago PI: William Irvine (Physics)
Key Individual in France: Denis Bartolo (ENS-Lyon)
Level of FACCTS funding over 2 years: \$20,000

PROJECT SUMMARY: We propose to study active chiral fluids using a large collection of spinning micron-scale colloidal magnets in water. Preliminary experiments in the laboratory of Irvine show that a large number of such colloids resting on a glass slide in water come together into a cohesive fluid when driven by an external magnetic field. This fluid has been speculated to have unusual exotic properties, such as ‘odd viscosity’ usually associated with topological quantum electronic systems. We will explore this enticing possibility—in experiment—by probing the fluid with microscopic objects fabricated via optical lithography in-situ and in theory by modeling the hydrodynamics of this system.

Black holes in string theory

Chicago PI: Emil Martinec (Physics, Enrico Fermi Institute)
Key Individual in France: Iosif Bena (CEA-Saclay)
Level of FACCTS funding over 2 years: \$20,000

PROJECT SUMMARY: Black holes provide an exquisite testing ground for quantum gravity and the nature of spacetime. Forty years ago, Stephen Hawking showed that the basic principles we use to construct physical theories—locality of interactions, causality of dynamical evolution, and conservation of probability—cannot all be maintained in a quantum theory of black holes. String theory has provided some understanding of the ensemble of black hole states, their geometrical structure, and some suggestions about the resolution of the Hawking paradox. The aim of this collaboration is to explore the structure of black hole states and their relation to geometry. Progress in this direction will elucidate the fundamental aspects of a quantum theory of spacetime.

Development of a kg-size dark matter detector based on the CCD technology

Chicago PI: Paolo Privitera (Astronomy & Astrophysics)
Key Individual in France: Mariangela Settimo (IN3P3, Nantes, CNRS)
Level of FACCTS funding over 2 years: \$7,200

PROJECT SUMMARY: That most of the universe is made of a dark (non-luminous) form of matter—five times more abundant than the familiar one that makes stars and planets—is one of the most puzzling questions in science. A likely explanation is that dark matter is made of yet-unknown, weakly-interacting massive particles (WIMPs). The DAMIC (Dark Matter in CCDs) experiment employs a novel technology—very-

thick, charged-coupled devices—to search for WIMPs with unprecedented low energy threshold and spatial resolution. The FACCTS grant will support the participation of the Nantes group in workshops focused on the preparation of a joint proposal to NSF and CNRS, to be submitted in the fall of 2017, for an ambitious kg-size detector.

Multiscale matrix decompositions for machine learning

Chicago PI: Risi Kondor (Computer Science)
Key Individual in France: Rémi Gribonval (INRIA Rennes)
Level of FACCTS funding over 2 years: \$12,000

PROJECT SUMMARY: The PIs of this proposal are pioneering the use of multilayer/multiscale matrix factorizations for high-dimensional data analysis. Such factorizations have the potential to reveal nontrivial multiscale structures in large-scale datasets and to enable efficient computations with (and storage of) massive data matrices. The project will develop an active collaboration between the two research groups, and use the complementary nature of their backgrounds (Signal Processing for Gribonval and Machine Learning for Kondor) to advance the theory and practice of multiscale factorizations. Specific objectives include: advancing the theory of multiscale matrix factorizations and proving performance bounds for the factorization algorithms; developing high performance software for such factorizations; and broadening the education of students and postdocs in both research groups.

Magnetic sponges

Chicago PI: John Anderson (Chemistry)
Key Individual in France: Jeon Ie-Rang (Université de Rennes)
Level of FACCTS funding over 2 years: \$15,000

PROJECT SUMMARY: This proposal aims to synthesize and study a new class of porous magnetic materials. These materials have myriad potential applications, including in light-weight magnets, alternative energy, and gas separations. By using a novel strategy involving radical linkers, we will be able to generate and tune materials that have both high porosity and strong magnetic coupling. In targeting this, we are focusing on a set of sulfur-based linkers that have proven capabilities for undergoing redox chemistry to stabilize radical isomers, making them an ideal choice for this study. We anticipate that this investigation will result in the development of an entirely new class of materials with unprecedented properties and applications.

Investigating filopodia formation through an interdisciplinary approach

Chicago PI: Gregory Voth (Chemistry)
Key Individual in France: Patricia Bassereau (Institut Curie, CNRS)
Level of FACCTS funding over 2 years: \$16,400

PROJECT SUMMARY: Our collaboration with Patricia Bassereau at the Institut Curie in Paris has one goal: the combination of computational and experimental methods to elucidate the underlying fundamental biophysical phenomena involved in cell membrane morphological change as driven by key proteins (aka “membrane remodeling”). The Voth group is widely recognized for their state-of-the-art multiscale computer modeling while the Bassereau group is similarly recognized for their quantitative, in vitro experimental biophysical research. Using a combination of these approaches, we will gain insight into key cellular processes that underpin fundamental filopodia formation phenomena, which in turn is pertinent to health-related issues such as metastatic cancer and neurological disorders.

Note: This project is supported by two members of the France Chicago Center’s Support Council in the Sciences: Mr. Tem Horwitz and Dr. Bradley Langer.

Heterogeneous models with propagation on networks

Chicago PI: Andrei Tarfulea (Mathematics)
Key Individual in France:.. . Jean-Michel Roquejoffre (Université Paul Sabatier, Toulouse)
Level of FACCTS funding over 1 year: \$9,740

PROJECT SUMMARY: The study of propagation phenomena in reaction-diffusion equations (RDE) has received much attention from the mathematical community. It is a very active area, pushing the limits of known methods (maximum principles and sub-/super-solutions), and developing new methods for more recent models with nonlocal interactions. The aim of this project is to study the propagation modes in heterogeneous environments possessing networks on which diffusion runs faster. These equations play a central role in modeling biological invasions (migrations, wound healing, tumor growth). The CPI (University of Chicago Dickson Instructor) proposes a month-long collaboration with Roquejoffre (a leader in RDE) at the Université Paul Sabatier. Tarfulea will also host Roquejoffre for nine days to finalize and present the results.

Exploring adaptive responses to pH variability in the face of ocean acidification

Chicago PI: Catherine Pfister (Ecology & Evolution)
Key Individual in France: Jean-Pierre Gattuso
(Laboratoire d’Océanographie de Villefranche)
Level of FACCTS funding over 2 years: \$24,900

PROJECT SUMMARY: The world’s oceans are currently undergoing a rapid decline in seawater pH, termed ocean acidification (OA). Though initial estimates suggest that OA

poses profound threats to global marine communities, two key areas of research have been largely disregarded: (1) the potential for rapid adaptive responses to OA and (2) the spatial and temporal variability of pH in coastal ecosystems. This collaboration explores the interplay of these issues by synthesizing lab-based studies at the Laboratoire d’Océanographie (LOV) in France with high-throughput genomic sequencing and data analysis at the University of Chicago. We ask: does exposure to variability in seawater acidity (pH) facilitate an adaptive response to OA in the Mediterranean mussel, *Mytilus galloprovincialis*?

Note: This project is supported by two members of the France Chicago Center’s Support Council in the Sciences: Mr. Tem Horwitz and Ms. Bridget Lesinski.

Novel hybrid simulation methods for the modeling of the protein assemblies in the respiratory chain

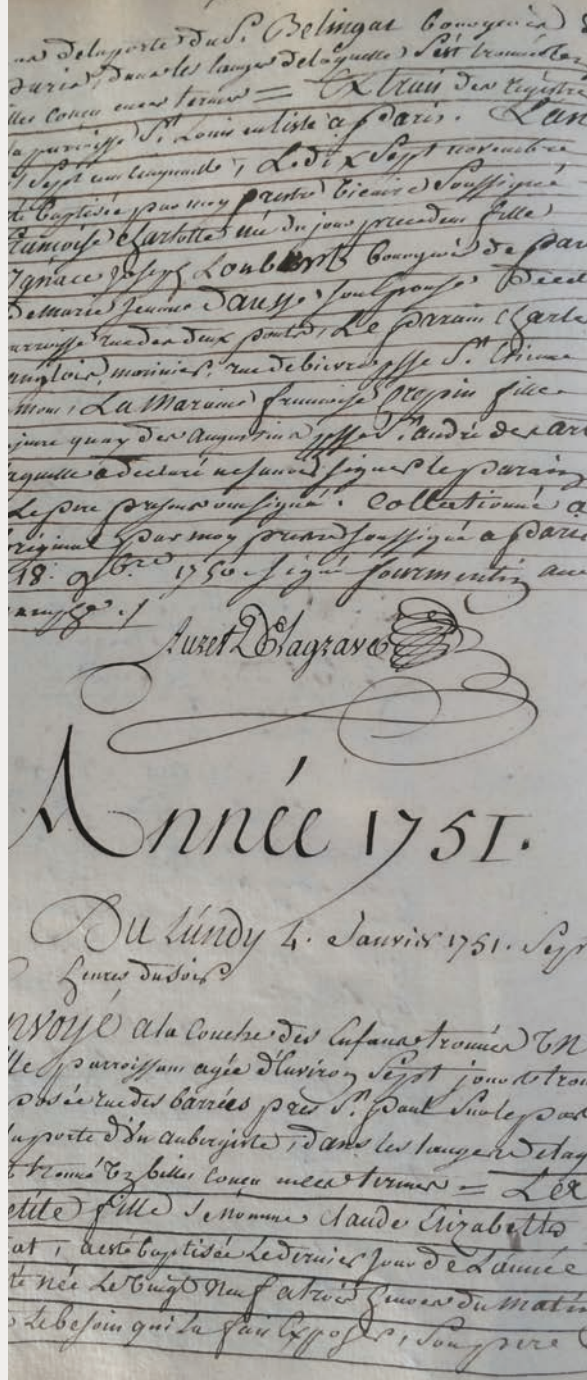
Chicago PI: Benoit Roux (Biochemistry and Molecular Biology)
Key Individual in France:..... Chris Chipot (Université de Lorraine, CNRS)
Level of FACCTS funding over 2 years: \$20,000

PROJECT SUMMARY: Mitochondrial complex I, the largest protein assembly of the respiratory chain, is responsible for energy production in higher organisms. Specifically, the catalytic cycle of the complex I is coupled to the transport of four protons across the inner mitochondrial membrane. Standard simulation methods, which typically ascribe a fixed protonation state to protein residues, cannot handle this situation. Here, the French and the American partners will develop a novel hybrid computational methodology harnessing the strengths of standard and non-equilibrium molecular dynamics to simulate for the first time the complex I at constant pH. This work will combine synergistically the expertise of the University of Chicago with that of the Université de Lorraine in the modeling of complex biomolecular objects relevant to bioenergetics.

Testing how eye movements affect the neural code for natural motion

Chicago PI: Jason MacLean (Biochemistry and Molecular Biology)
Key Individual in France:.. . Olivier Marre (Vision Institute, Université Pierre & Marie Curie)
Level of FACCTS funding over 2 years: \$15,000

PROJECT SUMMARY: When we view the world, our eyes move. This means that the picture our brain gets includes both the motion of objects in the world and the motion imposed by our eye movements. Theories abound about whether eye movements enhance visual processing or must be corrected for and subtracted. Our proposal will directly address this by first recording mouse eye movements while the animal views a natural video, then imposing both object and eye motion in a retinal recording from the same species of mouse. The retinal experiments will inform how we interpret and analyze the cortical code for natural motion.



(above left): Manuscript page at the Archives nationales (Paris) consulted by Hansong Li during his summer research trip in France.
(above right): The general archives of the Congrégation du Saint Esprit du Saint Cœur de Marie in Chevilly-Larue, where Johanna Pacyga conducted dissertation research.

“ My work [at Sciences Po] has enabled me to better understand the trajectory of grappling with the legacy of Vichy and WWII in France, and how [the 1930s philosopher Maurice] Blanchot’s works have been read in relationship to the ideas of guilt, heritage, and accountability that this reckoning process has put into question. The Science Po events I attended regarding the French election also illustrated for me the degree to which these are still very much live concerns in French thought.

... The research I’ve done here is the foundation of my entire dissertation. Without this time [in France], I’d have been unable to complete the project I proposed. I was also able to read beyond the sources in which I was most interested and gain a much richer understanding of the material with which I was working. As I suggested above, my time here has also allowed me to historicize this philosophy-based project, and grapple with the significant historical and political stakes of my project in a way that I don’t think I’d have otherwise been able.”

Bevin Blaber
Ph.D. student in the Divinity School
Sciences Po Exchange Fellowship
January 11, 2017 through June 30, 2017



“ While working at the MNHN [Musée National d’Histoire Naturelle], I was able to work in the skeletonization lab and learn useful techniques for creating a small comparative collection in the field... While some analysis on the Iskuder faunal assemblage remains to be finished, during my stay I was able to accomplish all of the goals I had set out to achieve. In addition, I made a number of new contacts within my field and my research will eventually become part of the publication pertaining to the Iskuder excavation. The time I spent working with [my advisor] Dr. Lesur enabled me to hone my zooarchaeological skills in the identification and analysis of faunal remains from an excavated collection. Writing my results on this faunal collection also provided me with experience in composing academic reports for this type of research which will be useful both academically for my dissertation, which is on zooarchaeological remains from Egypt, and professionally, as I hope to continue research in this field.”

Sasha Rohret
Ph.D. student in Near Eastern Languages & Civilizations
Francois Furet Travel Grant
June 12, 2017 through July 8, 2016

Evolution of resistance genes in plants

Chicago PIs: Joy Bergelson (Ecology & Evolution)
Key Individual in France: Fabrice Roux (INRA, CNRS)
Level of FACCTS funding over 1 year: \$10,160

PROJECT SUMMARY: On average, agricultural pests overcome resistance traits within five years. However, in nature, resistance alleles can persist and retain functionality for millions of years. Why is this? One likely factor is that agricultural fields are often dominated by single pests whereas nature is complex, with dozens of plant species sharing thousands of microbes. We will determine the comparative evolutionary genomics of resistance genes shared among co-occurring host plants within natural populations of *Arabidopsis thaliana*, *Erophila verna* and *Cardamine hirsuta* in France. These populations are a unique source to study the natural evolutionary trajectories of plant-pathogen interactions due to their extensive genetic variability and the background information available. Our studies may inform the use of plant community complexity to extend the durability of resistance in agrosystems.

Harnessing space and time in the transmission dynamics of vector-transmitted infections

Chicago PIs: Mercedes Pascual (Ecology & Evolution)
Key Individual in France: Richard Paul (Institut Pasteur)
Level of FACCTS funding over 2 years: \$16,000

PROJECT SUMMARY: The burden of infectious diseases transmitted by mosquito vectors are either on the rise or continue to defy elimination, in both developed and developing countries. Spatial and temporal patterns of incidence in diseases such as malaria, dengue and now Zika, reflect complex interactions between transmission dynamics and environmental drivers, including in particular climatic factors (temperature, rainfall and humidity) but also socio-economic heterogeneity. The purpose of this pilot project is to build a collaboration between UC and two institutions in Paris, the Université de Paris-Sorbonne and the Institut Pasteur, to address the spatio-temporal variability of vector-transmitted diseases in India, with emphasis on how a better understanding of this variability would inform intervention.

Scalable data movement for data-centric supercomputing

Chicago PI: Venkatram Vishwanath (Leadership Computing Facility)
Key Individual in France: Emmanuel Jeannot (INRIA, Bordeaux)
Level of FACCTS funding over 2 years: \$20,000

PROJECT SUMMARY: Data-centric supercomputing is of importance to the success of national and international scientific missions. This is increasingly becoming an integral part of scientific domains such as climate, material science, medicine, cosmology,

engineering, combustion, and astrophysics. Data-centric applications executed on these systems require the ability to rapidly and reliably compute, move, and manage large amounts of data through a deep and complex network interconnect and memory hierarchy and with diverse sources and destinations, including scientific instruments, storage systems, supercomputers, and analysis systems. This synergistic collaboration brings together experts in system modeling, application modeling, high-performance systems, and algorithm design to address these challenges and optimize application data flows to fully exploit architectural features of current and future systems by providing novel algorithms and efficient runtimes on supercomputers.

Coherent x-ray studies of phase transitions in the complex oxides

Chicago PI: Dillon Fong (Materials Science Division, Argonne)
Key Individual in France: Hubert Renevier (Université Grenoble Alpes)
Level of FACCTS funding over 2 years: \$20,000

PROJECT SUMMARY: Complex oxides are candidate materials for ‘beyond Moore’ technologies that exhibit exotic and often multifunctional properties originating from the intrinsic competition between various ground states. Their application will however depend on the ability to spatially and dynamically control phase behavior. Building on recent collaborative work with Prof. H. Renevier (Université Grenoble Alpes), we will conduct in situ studies of phase transitions in the complex oxides using X-ray photon correlation spectroscopy (XPCS), a unique capability only available at coherent light sources like the APS and ESRF. The results will provide a first-time look into the mechanisms governing phase transition dynamics in these correlated systems. We will also develop a new technique called resonant XPCS to reveal the underlying relationships between charge and structural dynamics.

Dark matter and satellite galaxies in the era of LSST

Chicago PI: Alex Drlica-Wagner (Particle Astrophysics, Fermilab)
Key Individual in France: Johann Cohen-Tanugi (Université de Montpellier, CNRS/IN2P3)
Level of FACCTS Funding over 2 years: \$15,000

PROJECT SUMMARY: Milky Way satellite galaxies are the faintest and most dark-matter-dominated galaxies in the known Universe. The Large Synoptic Survey Telescope (LSST), a next-generation optical telescope currently under construction in Chile, has the potential to increase the known population of Milky Way satellite galaxies by a factor of ten. However, to achieve this gain in sensitivity it is necessary to develop advanced computational and data analysis techniques. We propose a collaboration between the Laboratoire Univers et Particules de Montpellier/Université de Montpellier and Fermilab/University of Chicago to develop a simulation and analysis pipeline for discovering new Milky Way satellite galaxies with LSST. This program will combine Montpellier’s expertise in LSST simulations and data analysis with Chicago’s leadership in discovering dwarf galaxies with current surveys.

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