

### FACCTS Grant Recipients in 2017

Project Title	Chicago PI	Department	Lab or Division	Key Individual in France	Institution	Amount of Award
Evolution of resistance genes in plants	Joy Bergelson	Ecology & Evolution	BSD	Fabrice Roux	CNRS-INRA	\$10,160
Testing how eye movements affect the neural code for natural motion	Jason MacLean	Neurobiology	BSD	Olivier Marre	University Pierre and Marie Curie	\$15,000
Harnessing space and time in the transmission dynamics of vector-transmitted infections	Mercedes Pascual	Ecology & Evolution	BSD	Richard Paul	Institut Pasteur	\$16,000
Exploring adaptive responses to pH variability in the face of ocean acidification	Catherine Pfister	Ecology & Evolution	BSD	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	BSD	Chris Chipot	CNRS/Universite de Lorraine	\$20,000
Magnetic sponges	John Anderson	Chemistry	PSD	Jeon Ie-Rang	Universite de Rennes	\$15,000
Active chiral fluids	William Irvine	Physics	PSD	Denis Bartolo	Ecole Normale Superieure de Lyon	\$20,000

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Multiscale matrix decompositions for machine learning	Risi Kondor	Computer Science	PSD	Rémi Gribonval	INRIA Rennes	\$12,000
Black holes in string theory	Emil Martinec	Physics, Enrico Fermi Institute	PSD	Iosif Bena	CEA-Saclay	\$20,000
Development of a kg-size dark matter detector based on the CCD technology	Paolo Privitera	Astronomy & Astrophysics	PSD	Mariangela Settimo	IN2P3 / CNRS	\$7,200
Heterogeneous models with propagation on networks	Andrei Tarfulea	Mathematics	PSD	Jean-Michel Roquejoffre	Universite Paul Sabatier, Toulouse	\$9,740
Investigating filopodia formation through an interdisciplinary approach	Gregory Voth	Chemistry	PSD	Patricia Bassereau	Institut Curie	\$16,400
Coherent X-ray Studies of Phase Transitions in the Complex Oxides	Dillon Fong	Materials Science Division	ANL	Hubert Renevier	SUBATECH, Nantes, IN2P3, CNRS	\$20,000
Scalable Data Movement for Data-centric supercomputing	Venkatram Vishnawath	Leadership Computing Facility	ANL	Emmanuel Roquejoffre	Université Paul Sabatier	\$20,000
Dark Matter and Satellite Galaxies in the Era of LSST	Alex Drlica-Wagner	Particle Astrophysics	Fermilab	Johann Cohen-Tanugi	Université de Montpellier, CNRS	\$15,000