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**RE: DOE Computational Science Graduate Fellowship Opportunity – PLEASE POST**

Dear Colleague:

The prestigious Department of Energy Computational Science Graduate Fellowship (DOE CSGF) – a program that has generated nearly 400 graduates in 27 years – will soon accept applications for its 2019-2020 incoming class.

The DOE CSGF provides outstanding benefits and opportunities for students pursuing doctoral degrees in fields that use high-performance computing to solve complex problems in science and engineering. In 2018, the program expanded to also fund doctoral candidates researching applied mathematics, statistics or computer science advances that contribute to more effective use of emerging high-performance systems. Please see our website for details and a listing of applicable research areas.

**Application materials are due January 9, 2019, and your assistance in identifying qualified candidates for our next class of fellows is vital to the program's continued success.** Enclosed you will find a poster outlining the DOE CSGF's unique benefits; please post or share it with someone you consider a good fit for the fellowship. We're also enclosing a copy of *DEIXIS, The DOE CSGF Annual*, which provides a sampling of the work and pursuits of fellows and alumni.

For more information and to access the online application, please visit [www.krellinst.org/csgf](http://www.krellinst.org/csgf).

As always, I welcome your questions and thank you for your support.

Best regards,

Lindsey Eilts  
DOE CSGF Program Coordinator  
Krell Institute

Enclosures





DEPARTMENT OF ENERGY

# COMPUTATIONAL SCIENCE GRADUATE FELLOWSHIP



*The DOE CSGF is open to senior undergraduates and students in their first year of doctoral study.*

**OAK RIDGE NATIONAL LABORATORY**

The first simulation of an atomic nucleus on a quantum computer: a deuteron, the bound state of a proton (red) and a neutron (blue).

**ARGONNE NATIONAL LABORATORY**

Streamlines from an early time step of the Rayleigh-Taylor instability depend on scalable storage, communication, and data analysis algorithms developed at extreme scale.



The Department of Energy Computational Science Graduate Fellowship (DOE CSGF) provides up to four years of financial support for students pursuing doctoral degrees in fields that use high-performance computing to solve complex problems in science and engineering.

The program also funds doctoral candidates in applied mathematics, statistics or computer science who are pursuing research that will contribute to more effective use of emerging high-performance systems. Complete details and a listing of applicable research areas can be found on the DOE CSGF website.

## BENEFITS

- + \$37,000 yearly stipend
- + Payment of full tuition and required fees
- + Yearly program review participation
- + Annual professional development allowance
- + 12-week research practicum experience
- + Renewable up to four years

## APPLICATIONS DUE 1.09.19

*This equal opportunity program is open to all qualified persons without regard to race, gender, religion, age, physical disability or national origin.*

[www.krellinst.org/csgf](http://www.krellinst.org/csgf)



U.S. DEPARTMENT OF  
**ENERGY**

Office of  
Science





# INCOMING DOE CSGF CLASS

The newest class of Department of Energy Computational Science Graduate Fellowship (DOE CSGF) recipients – the 28th in the program's history – comes on board this fall. It's the first to include students pursuing a track in applied mathematics, statistics or computer science. All students receive yearly stipends, full tuition and fees and other benefits for up to four years.

**Christiane Adcock**

Stanford University  
*Computational and Mathematical Engineering*

**Sydney Andrews**

Stony Brook University  
*Astrophysics*

**Kaley Brauer**

Massachusetts Institute of Technology  
*Astrophysics*

**Jacob Bringewatt**

University of Maryland, College Park  
*Physics*

**Kimberly Cushman**

Yale University  
*Physics*

**Justin Finkel**

University of Chicago  
*Computational and Applied Mathematics*

**Ryder Fox**

University of Miami  
*Meteorology and Physical Oceanography*

**Steven Fromm**

Michigan State University  
*Physics*

**Sarah Greer**

Massachusetts Institute of Technology  
*Mathematics and Computational Science*

**Olivia Hull**

Kansas State University  
*Physical Chemistry*

**Edward Hutter**

University of Illinois at Urbana-Champaign  
*Computer Science*

**Dipti Jasrasaria**

University of California, Berkeley  
*Chemistry (Physical-Theory)*

**K. Grace Johnson**

Stanford University  
*Chemical Physics*

**Logan Kunka**

Texas A&M University  
*Aerospace Engineering*

**William Moses**

Massachusetts Institute of Technology  
*Computer Science*

**Samuel Olivier**

University of California, Berkeley  
*Nuclear Engineering*

**Melissa Queen**

University of Washington  
*Information Theory*

**Jesse Rodriguez**

Stanford University  
*Plasma Physics*

**Lawrence Roy**

Oregon State University  
*Computer Graphics*

**Noora Siddiqui**

University of California, Irvine  
*Pharmaceutical Sciences*

**Steven Stetzler**

University of Washington  
*Astronomy*

**James Sullivan**

University of California, Berkeley  
*Astrophysics*

**Anda Trifan**

University of Illinois at Urbana-Champaign  
*Theoretical and Computational Biophysics*

**Michael Tucker**

University of Hawaii  
*Astronomy*

**Caitlin Whitter**

Purdue University  
*Computer Science*

**Paul Zhang**

Massachusetts Institute of Technology  
*Geometric Data Processing*



# CLASS OF 2018



**Alnur Ali**  
Carnegie Mellon University  
*Machine Learning*  
Advisor: Zico Kolter  
Practicum: Lawrence Berkeley National Laboratory  
Contact: alnurali@gmail.com



**Julian Kates-Harbeck**  
Harvard University  
*Physics*  
Advisor: Michael Desai  
Practicum: Princeton Plasma Physics Laboratory  
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**Jay Stotsky**  
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*Applied Mathematics*  
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**Thomas Anderson**  
California Institute of Technology  
*Applied and Computational Mathematics*  
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Practicum: Lawrence Livermore National Laboratory  
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**Alex Kell**  
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*Computational Neuroscience*  
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*Computational Materials Science*  
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**Hannah De Jong**  
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*Genetics*  
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*Physics*  
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**Gerald Wang**  
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*Mechanical Engineering*  
Advisor: Nicolas Hadjiconstantinou  
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**Kyle Felker**  
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*Applied and Computational Mathematics*  
Advisor: James Stone  
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**Danielle Rager**  
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*Neural Computation*  
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*Theoretical Chemistry*  
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**Adam Riesselman**  
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*Bioinformatics and Integrative Genomics*  
Advisor: Debora Marks  
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**Joy Yang**  
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