

CURRICULUM VITAE

Amy Lisa Graves

Professor and Past Chair

Dept. of Physics and Astronomy

Swarthmore College

CONTACT INFORMATION

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EDUCATION

- B.A. from Williams College, Summa Cum Laude, Salutatorian of Class, Majors in mathematics and with Highest Honors in physics, June '79.
- Ph.D. in physics from M.I.T. June '84
- Postdoctoral Scientist in Theoretical and Mathematical Sciences Group, Exxon Research and Eng. Co. Sept. '84 - Sept. '86
- Postdoctoral Scientist in Chemistry Dept., Columbia Univ. Sept. '86 - Sept. '88

VISITING POSITIONS

- Visiting Assistant Professor (research), Chemistry Dept., Brown Univ. Summer '90 , '91
- N.S.F. Visiting Assistant Professor, Chemistry Dept., Boston Univ. Summer, Fall '92
- Visiting Scholar, Chemistry Dept., Univ. of Pennsylvania, '95-96
- Visiting Scientist, Chemistry Dept., Indiana Univ. Summer '98
- Visiting Scientist, Lawrence Livermore National Labs, '99-'00
- Collaborating Guest Scientist, Lawrence Livermore National Labs '00-'07
- Visiting Scientist, Physics Dept., Univ. of Pennsylvania, '11-13

FELLOWSHIPS AND MAJOR GRANTS

- Whittaker Fellowship at M.I.T., '82-83, '83-84
- Supercomputer time on Cray X-MP, Y-MP from the National Center for Supercomputing Applications, '90-'93
- NSF Visiting Professorship for Women Award, '92
- Research Corporation Grant, '93-95
- Supercomputer time on C-90 at Pittsburgh Supercomputing Center, '95 - '98
- Eugene Lang Sabbatical Fellowship of Swarthmore College, '95-96
- Petroleum Research Fund (PRF): Type B Grant, '98 - '00, PRF fund grant extended '01-'02
- US Dept. of Energy Sabbatical Award, '99-'00

- Mellon Foundation New Directions Sabbatical Award, '03-'04
- Mellon Foundation Tricollege Seed Grant, '04-'05
- NSF ADVANCE PAID Award (Horizontal mentoring alliance) '07-'10
- Eugene Lang Sabbatical Fellowship of Swarthmore College, '11-12
- Petroleum Research Fund (PRF): Type UR Grant, '12-'15
- PRF fund grant extended '15-'16 and '16-'17
- Advisory board for NSF ADVANCE award "Resonant Phenomena: Mutual Mentoring to Combat Isolation in Physics" (PI's C. Blaha, A. Cox, B. Cunningham, I. Ramos and B Whitten) '15-'20

GRANT in PREPARATION:

NSF MRS-TMRP Due date: Nov. 1, 2018

"Jamming Transition in Sheared Granular Materials with Pinning Sites"

RUI grant with collaborating institutions Bucknell Univ and Swarthmore Coll.

PI's: Amy Graves and Brian Utter

Co-PI's: Cacey Benson and Katharina Vollmayr-Lee

Duration: 3 y

Approximate budget: \$600,000

HONOR AND PROFESSIONAL SOCIETIES

- **Fellow of the American Physical Society**
- Phi Beta Kappa
- Sigma Xi
- **Vice Chair, Chair and Past Chair** of the Division of Computational Physics (DCOMP) of the American Physical Society
- **Chair** of DCOMP Fellowship Committee of the American Physical Society
- American Physical Society – member of the Division of Computational Physics, Topical group on Soft Matter, Forum on Education
- Elizabeth Bond Award (Swarthmore's Women's Studies program)

REVIEWING and JOURNAL RELATED ACTIVITIES

Reviews of articles and textbooks have been performed for *Physical Review and Letters*, *Journal of Chemical Physics*, *American Journal of Physics*, *Journal of Physical Chemistry*, *Journal of Computational Physics*, *Journal of Computational Chemistry*, *Microporous and Mesoporous Materials*, *Feminist Formations*, *Journal of Statistical Physics*, *Journal of Women and Minorities in Science and Engineering*, McGraw-Hill Publishing

- **Editor** (Computational physics expert) for Resource Letters for *American Journal of Physics*
- **NSF service:** NATO grant reviewer, panelist for distinguished teacher scholar awards,

Site visitor for NSF MRSEC (Univ. of Chicago) and MRSEC/PREM (City College of New York), panelist for NSF graduate research fellowship awards (multiple years)

- Reviewer for DOD National Defense Science and Engineering Graduate Fellowships
- **APS Service:** Award Committee for APS faculty member prize for research at undergraduate institution, Award panel for LeRoy Apker award for best undergraduate thesis in physics
- **Dept. Curricular reviews:** Pomona College, Gettysburg College, McDaniel College, Colby College

. **MEETINGS ORGANIZED**

- Boston Women in Physics (NSF-funded, Boston University, 1992)
- Division of Computational Physics, March APS Meeting (Dallas TX, 2011)
- "Hidden Figures" Issues of African American Women in STEM (Swarthmore College, 2018)