

Rebecca (Reba) J. Howard, Ph.D.

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Researcher and educator in biochemistry, biophysics, neuroscience, career development, and related fields, currently managing a laboratory at an international research university.

EDUCATION

Doctor of Philosophy, Chemistry & Chemical Biology **2001–2007**
University of California, San Francisco (UCSF), San Francisco, CA

Bachelor of Arts cum laude, Chemistry; Dance minor **1997–2001**
Pomona College, Claremont, CA

PROFESSIONAL EXPERIENCE

Forskare (Researcher), *Stockholm University, Stockholm, SWEDEN* **2016–present**

- Designing, conducting, and supervising research using biochemistry, electrophysiology, and molecular simulations to elucidate structure and function of proteins relevant to brain function and disease
- Leading a multidisciplinary research team, mentoring students and trainees, organizing workshops and lectures, managing equipment and supplies, and writing and editing grants and publications

Research Supervisor, *DIS Study Abroad in Scandinavia, Stockholm, SWEDEN* **2018–present**

- Teaching science research and communication to undergraduates on semester-exchange from the USA
- Training in inclusive experiential pedagogy through DIS faculty development program (*Love of Learning*)

Assistant Professor, *Skidmore College, Saratoga Springs, NY* **2012–2016**

- Developed and taught undergraduate courses in biochemistry (*Macromolecular Structure & Function, Intermediary Metabolism, Experimental Biochemistry*), general chemistry (*Principles of Chemistry*), and special topics (*Chemistry Senior Seminar, Under the Influence: Alcohol in Science & Society*)
- Established and supervised a biochemistry research group studying allosteric modulation of ion channels, including advising of nineteen undergraduate researchers

Postdoctoral Fellow, *The University of Texas at Austin (UT-Austin), Austin, TX* **2008–2012**

- Designed and executed collaborative research into alcohol's effects on brain proteins, including mentoring of seven research students
- Led the development of professional opportunities for postdoctoral researchers, including Board positions with the *UT-Austin Postdoctoral Association* and *Institute for Neuroscience*

Instructor, *University of San Francisco, San Francisco, CA* **2008**

- Taught multiple sections of undergraduate biology (*Microbiology Laboratory*)
- Trained in inquiry-based pedagogy practices through the *UCSF Preparing Future Faculty* program

Scientist Educator, *Science & Health Education Partnership, San Francisco, CA* **2001–2008**

- Taught primary-school students and teachers through the *City Science Summer Institute*
 - Coordinated materials and training for K–12 teachers through the *Daly Ralston Resource Center*
 - Managed middle-school science club through NSF-funded *Triad Alliance for Gender Equitable Teaching*
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PUBLICATIONS, PRESENTATIONS & HONORS

Publications in scientific journals including *Nature*, *Neuron*, *Proceedings of the National Academy of Sciences of the USA*, and *Molecular Pharmacology* (rebahoward.net/publications.html#pubs)

Invited talks at international universities and conferences, including the *Biophysical Society*, *Society for Neuroscience*, *International Society for Biomedical Research on Alcoholism*, and *TEDx Skidmore College* (rebahoward.net/publications.html#talks)

Honors including grants, fellowships, research and service awards from the *NSF*, *NIH*, *American Heart Association*, and *Swedish Research Council* (rebahoward.net/honors.html)

SERVICE & MEMBERSHIPS

Service as a committee member, conference organizer, symposium chair, guest writer and reviewer with scientific organizations including the *San Francisco Association for Women in Science*, *Biophysical Society*, *Faculty for Undergraduate Neuroscience*, and *Centre Européen de Calcul Atomique et Moléculaire* (rebahoward.net/service.html#service)

Professional memberships in the *Biophysical Society*, *American Chemical Society*, *American Society for Pharmacology & Experimental Therapeutics*, *Faculty for Undergraduate Neuroscience*, *International Society for Biomedical Research on Alcoholism*, *Research Society on Alcoholism*, and *Society for Neuroscience*