

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

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

EDUCATION

- Ph.D.**, Chemistry & Chemical Biology **2001–2007**
University of California, San Francisco (UCSF), San Francisco, CA
- B.A. cum laude**, Chemistry; Dance minor **1997–2001**
Pomona College, Claremont, CA
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PROFESSIONAL EXPERIENCE

- Researcher**, Stockholm University, Stockholm, Sweden **2016–present**
- Designed and conducted experiments using electrophysiology, molecular biology, and protein biochemistry to elucidate structure and function of membrane proteins relevant to human drug use and drug design
 - Managed laboratory research group, including acquisition and maintenance of equipment and supplies, composition and supervision of publications, and mentoring of trainees
- Assistant Professor**, Skidmore College, Saratoga Springs, NY **2012–2016**
- Designed 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 biochemistry research group studying allosteric modulation of ion channels, including advising of nineteen undergraduate researchers
- Instructor**, *Australian Course in Advanced Neuroscience*, Brisbane, Australia **2013, 2014**
- Postdoctoral Fellow**, The University of Texas at Austin (UT-Austin), Austin, TX **2008–2012**
- Developed and executed collaborative research into alcohol's effects on brain proteins, including mentorship of seven undergraduate and graduate students
 - Expanded professional opportunities for postdoctoral researchers through campus and disciplinary leadership, including Board positions with the UT-Austin *Postdoctoral Association* and *Institute for Neuroscience*
- Instructor**, University of San Francisco, San Francisco, CA **2008**
- Taught two undergraduate Biology Department course sections (*Microbiology Laboratory*)
 - Trained in inquiry-based pedagogy practices through the UCSF *Preparing Future Faculty* program
- Programs Assistant**, UCSF *Office of Career & Professional Development*, San Francisco, CA **2008**
- Scientist Educator**, *Science & Health Education Partnership*, San Francisco, CA **2001–2003, 2008**
- Designed and delivered primary school and teacher training lessons with 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 the NSF-funded *Triad Alliance for Gender Equitable Teaching*
- Teaching Assistant**, *American Crystallographic Association Summer School*, Chicago, IL **2006**
- Research Assistant**, University of Colorado Health Sciences Center, Denver, CO **2001**
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PUBLICATIONS, PRESENTATIONS, & HONORS

- Publications** in scientific journals including *Neuron*, *Nature Communications*, and *Proceedings of the National Academy of Sciences of the USA* (rebahoward.net/publications.html#pubs)
- Invited talks** at national and international institutions and conferences, including the Society for Neuroscience, Stockholm University, 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 others (rebahoward.net/honors.html)
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SERVICE & MEMBERSHIPS

- Service** as a committee member, symposium chair, or guest blogger with scientific societies and campus organizations, including the San Francisco Association for Women in Science, Biophysical Society, and Skidmore College Neuroscience Program (rebahoward.net/service.html#service)
- Professional memberships** in the American Chemical Society, American Society for Pharmacology & Experimental Therapeutics, Biophysical Society, Faculty for Undergraduate Neuroscience, International Society for Biomedical Research on Alcoholism, Research Society on Alcoholism, and Society for Neuroscience