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DEPARTMENT OF INTEGRATIVE PHYSIOLOGY
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EDUCATION

- Ph.D. 1991, Biology (Neurophysiology), Case Western Reserve University, Cleveland, OH.
- B.A. 1985, Majors: Zoology, and Mathematics with Computer Science emphasis, Summa cum laude, with Specialized Honors in Zoology, Drew University, Madison, NJ.

CURRENT AND PREVIOUS POSITIONS

- Senior instructor, 2014-present, Dept. of Integrative Physiology, University of Colorado Boulder.
- Instructor, 2002-2013, Dept. of Integrative Physiology, University of Colorado Boulder.
- Professional Research Associate, 2001-2002, Dept. of EPO Biology, University of Colorado Boulder with Dr. Pei-San Tsai.
- Professional Research Associate, 1997-2001, Dept. of EPO Biology, University of Colorado Boulder with Dr. Robert Eaton.
- Postdoctoral Research Associate, 1994-1997, Advisor: Dr. Robert Eaton, Center for Neuroscience, University of Colorado Boulder.
- Postdoctoral Fellow, 1992-1994, Advisor: Dr. Richard Levine, Arizona Research Laboratories Division of Neurobiology, University of Arizona Tucson.
- Postdoctoral Research Associate, 1991-1992, Sponsor: Dr. Richard Levine, Arizona Research Laboratories Division of Neurobiology, University of Arizona Tucson.

PROFESSIONAL AND ACADEMIC HONORS/AWARDS

- **2017**, Arts and Sciences Fund for Excellence, Travel Award (\$800), University of Colorado Boulder.
- **2017**, Arts and Sciences Instructor Travel Award (\$600), University of Colorado Boulder.
- **2016**, *Development and implementation of case studies across the foundational IPHY curriculum – a continuation of the SEI effort*, Transforming Education, Supporting Teaching and Learning Excellence (TRESTLE) Course Development Award (\$10,000) - National Science Foundation.
- **2015**, Sam Drogo Technology in the Classroom Award, Human Anatomy and Physiology Society.
- **2015**, Boulder Faculty Assembly (BFA) Faculty Recognition Award, University of Colorado Boulder.
- **2015**, Summer Session Online Course Development Grant (\$5,000), Office of Associate Vice Chancellor for Summer Session, University of Colorado Boulder.
- **2015**, Arts and Sciences Fund for Excellence, Travel Award (\$700), University of Colorado Boulder.
- **2014-2015**, BFA Leadership Institute, University of Colorado Boulder
- **2014**, Arts and Sciences Fund for Excellence, Travel Award (\$500), University of Colorado Boulder.
- **2013**, Arts and Sciences Support of Excellence in Teaching through Technology (ASSETT) Technology Development Award, University of Colorado Boulder
- **2013**, Dean's Fund for Excellence, Travel Award (\$500), University of Colorado Boulder.
- **2011**, Chancellor's Award for Excellence in STEM Education, *Evaluation of the Effectiveness and Success of Inquiry-Based Laboratories in IPHY*, University of Colorado Boulder.
- **2011**, Dean's Fund for Excellence, Travel Award (\$500), University of Colorado Boulder.
- **2009**, President's Teaching and Learning Collaborative, *Measuring Course Reform through the Cognitive Difficulty of Exams*, University of Colorado Boulder.

- 1997, Human Frontiers Science Program Short-Term Fellowship, *Effects of a Novel Wasp Toxin on Identified Neurons in the Cockroach Escape Circuit*, Ben-Gurion University of the Negev, Israel.
- 1997, Grass Foundation Fellow, *Pressure-Sensitive Auditory Input to Mauthner Cells in the Goldfish: Origin, Response Properties and Connectivity*, Marine Biological Laboratory (MBL), Woods Hole, MA.
- 1996, MBL Fellowship, Methods in Computational Neuroscience Course, Woods Hole, MA.
- 1985-1988, NIH Pre-doctoral National Research Service Award
- 1987, NIMH Training Grant, Neural Systems and Behavior Course, MBL, Woods Hole, MA.

TEACHING EXPERIENCE

- Full-time instructor (2002-present), Integrative Physiology, University of Colorado Boulder.
Courses taught include:
 - IPHY 1010: Introduction to Kinesiology
 - IPHY 3430: Introduction to Physiology
 - IPHY 3435: Physiology Lab (instructor, lab coordinator)
 - IPHY 3470: Human Physiology 1
 - IPHY 3700: Scientific Writing
 - IPHY 4010: Neurophysiological Basis of Movement Disorders (face-to-face, online)
 - IPHY 4010: Undergraduate Teaching Assistant Training Seminar
 - IPHY 4100: Undergraduate Colloquium in Integrative Physiology
 - IPHY 4660: Critical Thinking - Neurobiology of Disease
 - IPHY 4720 Neurophysiology (instructor, lab coordinator)
 - IPHY 5100: Graduate Colloquium in Integrative Physiology
- Lecturer (1999-2001) Department of EPO Biology, University of Colorado Boulder.
Courses taught: *Introduction to Neurophysiology* (Fall 1999-2001), *Embryology* (Spring 2001).

RECENT PROFESSIONAL DEVELOPMENT ACTIVITIES

- **2017**, Semester-long TRESTLE (Transforming Education – Stimulating Teaching & Learning Excellence) Scholars Program on *Course-based Undergraduate Research Experiences* (CURES).
- **2017**, 31st Annual Human Anatomy & Physiological Society (HAPS) Conference, Salt Lake City, UT.
- **2017**, ASSETT (Arts & Sciences Support of Education Through Technology) Book Club – *Make It Stick: The Science of Successful Learning*, UCB.
- **2017**, TRESTLE (Transforming Education – Stimulating Teaching & Learning Excellence) annual conference, UCB.
- **2014-2017**, Center for STEM Learning (CSL) Annual Symposium on STEM Education, UCB.
- **2016-present**, TRESTLE *Shared Innovation Discussion Group* (ShinDig), UCB.
- **2016-present**, *Professional and Educational Developers* (PED) group, UCB.
- **2013-present**, Discipline-based Educational Research (DBER) group, UCB.
- **2017**, OIT training on Canvas Learning Management System.
- **2017**, TRESTLE national training on *Classroom Observation Protocol for Undergraduate STEM*.
- **2017**, Center for STEM Learning (CSL) Special Interactive Workshop: *Designing innovations for sustained adoption*, UCB.
- **2016**, 2nd Annual national TRESTLE Meeting & Course Transformation Institute, University of Colorado Boulder.
- **2016**, STEM Curriculum Interest Group, national online discussion group.

- **2016**, ASSETT (Arts & Sciences Support of Education Through Technology) Book Club – *How Learning Works: 7 Research-Based Principles for Smart Teaching*, University of Colorado Boulder.
- **2015-2016**, ASSETT *Technology Pit Stop*, University of Colorado Boulder.
- **2016**, Web Express Core Training workshop, University of Colorado Boulder.
- **2014-2015**, Annual ASSETT *Teaching with Technology Symposium*, University of Colorado Boulder.
- **2015**, ASSETT *Flipped Classroom Seminar*, University of Colorado Boulder.
- **2015**, ASSETT *Hybrid Course Design Seminar*, University of Colorado Boulder.
- **2015**, 1st national TRESTLE Meeting & Course Transformation Institute, University of Kansas.
- **2015**, 29th Annual Human Anatomy & Physiological Society (HAPS) Conference, San Antonio, TX.
- **2015**, ASSETT *Technology Meet-Up*, University of Colorado Boulder
- **2015**, FTEP *Digital Learning Workshop*, University of Colorado Boulder
- **2015**, STEM Education Celebration symposium, University of Colorado Boulder.
- **2014**, 28th Annual Human Anatomy and Physiological Society (HAPS) Conference, Jacksonville, FL.
- **2014**, Colorado Learning and Teaching with Technology (COLTT) Conference, UCB.
- **2014**, ASSETT *Advanced Camtasia Workshop*, University of Colorado Boulder.
- **2013**, ASSETT *Teaching with Technology Symposium* – 8 workshop series
- **2013**, ASSETT workshop on *D2L Quiz Tools and Gradebook*.

RECENT, INVITED WORKSHOPS PRESENTED

- *Case Study Workshop*, 2nd Annual TRESTLE (Transforming Education - Supporting Teaching & Learning Excellence) Meeting and Course Transformation Institute, University of Colorado Boulder, **2016**.
- *Case Study Discussion Group*, TRESTLE ShinDig (Shared Innovation Discussion Group) meeting, University of Colorado Boulder, **2016**.
- *What does a transformed course look like?*, 1st Annual TRESTLE Meeting and Course Transformation Institute, University of Kansas, **2016**.
- *Google+ Communities Workshop*, ASSETT Innovation Pit Stop, University of Colorado Boulder **2015**.
- *Screencasts for Student Review*, ASSETT *Annual Teaching with Technology Symposium*, University of Colorado Boulder, **2014**.
- *How to Learn Anatomy and Physiology Effectively*, Student Academic Success Center (SASC) - 9 workshops on study skills, 2012-2013.
- *Learning Strategies to Succeed in Your Science Courses*, Center for Multicultural Affairs, 2013.
- *Examining Students' Attitudes about Critical Thinking*, Graduate Teacher Program Teaching Institute for Graduate Education Research (TIGER) workshops, 2012.
- *Introducing Challenging Coursework - Asking, and Reflecting On, What's Working*; CU Science Education Initiative end-of-year event, 2009.

RECENT WORKSHOPS PRESENTED

- *Developing and incorporating interrupted case studies into your anatomy and physiology course(s)*. 31st Human Anatomy and Physiological Society Conference workshop, Salt Lake City, UT, **2017**.
- *Multiple Measures of Assessment*. Department of Integrative Physiology, **2017**.
- *Screencasts and Lecture Capture – Tips and Best Practices*. 29th Human Anatomy and Physiological Society Conference workshop, San Antonio, TX, **2015**.
- *Bloom's taxonomy - a way to determine cognitive level of course materials when used correctly*. 29th Human Anatomy and Physiological Society Conference workshop, San Antonio, TX, **2015**.

- *Lecture Capture: Planning for Success (an Instructor Perspective)*. Colorado Learning and Teaching with Technology (COLTT) Conference workshop, UCB, **2014**.
- *Teaching and understanding electrochemical forces, equilibrium potentials, and ion flow*. Workshop presented at the 28th Annual Human Anatomy and Physiological Society (HAPS) Conference, Jacksonville, FL, **2014**.
- *Accomplishing Learning Goals with Worksheets - An Active Learning Technique for Enhancing Student Learning of Key Concepts*, 27th Annual HAPS Conference workshop, Las Vegas, NV, 2013.
- *Evaluation of the Effectiveness and Success of Inquiry-Based Laboratories in IPHY*, Discipline-Based Educational Research Seminar Series, UCB, 2013.
- *Bloom's taxonomy - a useful tool to determine cognitive level of course materials when used correctly*. 26th Human Anatomy and Physiological Society Conference workshop, Tulsa, OK, 2012.
- *Examining Students' Attitudes about Critical Thinking*. Invited speaker at the *Graduate Teacher Program Teaching Institute for Graduate Education Research (TIGER)* workshop, 2012.
- *Study Skills*. Invited speaker for Student Academic Success Center (SASC). Offered 9 workshops 2012-2013.
- *Introducing Challenging Coursework - Asking, and Reflecting On, What's Working*; Invited speaker at the CU Science Education Initiative end-of-year event, 2009.
- *Enhancing Student Learning while Reducing Grading Load*, Colorado Learning and Teaching with Technology (COLTT) Conference half-day workshop, UCB, 2009.

PUBLICATIONS

- **Casagrand JL, Semsar K (2017)** *Moving students from LOCS to HOCS: Implementation of active learning in a neurophysiology course*. *Advances in Physiology Education* 41:194-202.
- Semsar K, **Casagrand JL (2017)** *Bloom's Dichotomous Key: A new tool for evaluating the cognitive difficulty of assessments*. *Advances in Physiology Education* 41: 170-177.
- **Casagrand JL (2015)** *Qualitative Research Methods & Anatomy Education – Getting to the Meaning within Data*. *Human Anatomy & Physiology Society Educator*. Conference Review.
- **Casagrand JL (2014)** *Education at the crossroads – teaching as if learning mattered*. *Human Anatomy & Physiology Society Educator*. Conference Review.
- **Casagrand JL (2012)** *Control the Gamma Neuron Sensitivity*. *Human Anatomy & Physiology Society Educator – Promoting Excellence in Teaching of Human Anatomy & Physiology* 6(4) 19-20.
- **Casagrand JL, Cummins GI and Eaton RC (2003)** *Modeling studies and physiology of discriminatory coincidence detection in the Mauthner neuron*. *Bioacoustics* 12:212-214.
- Eaton RC, **Casagrand JL** and Cummins G.I. (2002) *Neural implementation of the phase model for localising impulse sounds by the Mauthner system*. *Bioacoustics* 12:209-212.
- **Casagrand JL, Guzik AL, Eaton RC (1999)** *Mauthner cell and reticulospinal neuron responses to onset of acoustic pressure and acceleration stimuli*. *J Neurophysiol*. 82: 1422-1437.
- Libersat F, Haspel G, **Casagrand JL, Fouad K (1999)** *Localization of the site of effect of a wasp venom in the cockroach escape circuitry*. *J Comp Physiol A*. 184: 333-345.
- Eaton RC, Guzik AL, **Casagrand JL (1997)** *Mauthner system discrimination of stimulus direction from the acceleration and pressure components at sound onset*. *Biol Bull* 192:146-149.
- **Casagrand JL, Ritzmann RE (1992)** *Evidence that synaptic transmission between giant interneurons and identified thoracic interneurons in the cockroach is cholinergic*. *J Neurobiol* 23: 627-643.

- **Casagrand JL**, Ritzmann RE (1992) *Biogenic amines modulate synaptic transmission between identified giant interneurons and thoracic interneurons in the escape system of the cockroach*. J Neurobiol 23: 644-655.
- **Casagrand JL**, Ritzmann RE (1991) *Localization of ventral giant interneuron connections to VM branch of thoracic interneurons in the cockroach*. J Neurobiol 22: 643-658.

RECENT CONFERENCE PRESENTATIONS

- **Casagrand J**, Foley T, Heisler R (2016) *Challenges encountered when integrating case studies across the foundational IPHY curriculum*. Poster presented at the 7th Annual Symposium on STEM Education, CU Boulder.
- Foley T, **Casagrand J**, Heisler R (2016) *Curriculum Coordinators in Integrative Physiology: A new approach to sustaining STEM transformations*. Poster presented at the 2nd TRESTLE Annual Meeting and Course Transformation Institute, CU Boulder.
- Boyko M, Foley T, LaRocca T, **Casagrand J** (2016) *Student Perceptions of Learning in IPHY's Scientific Writing Course: A Preliminary Look at the Responses*. Poster presented at the 2nd TRESTLE Annual Meeting and Course Transformation Institute, CU Boulder.
- Foley T, **Casagrand J**, Heisler R (2016) *Curriculum Coordinators in Integrative Physiology: A new approach to sustaining STEM transformations*. Poster presented at the 7th Annual Symposium on STEM Education, CU Boulder.
- **Casagrand J**, Foley T, Heisler R (2016) *Challenges encountered when integrating case studies across the foundational IPHY curriculum*. Poster presented at the 2nd Annual TRESTLE Meeting and Course Transformation Institute, University of Colorado Boulder.
- **Casagrand J** (2016) *Positive student reaction to case studies in an upper division neurophysiology course*. Poster presented at the TRESTLE Annual Meeting and Course Transformation Institute, University of Kansas.
- Chasteen S, **Casagrand J**, Heisler, R, Martin A, Shannon E (2016) *University of Colorado TRESTLE Course Transformations*. Poster presented at the TRESTLE Annual Meeting and Course Transformation Institute, University of Kansas.
- **Casagrand J**, Foleys T (2014) *Is it possible to improve student performance in identifying the appropriate study design and statistical test in a physiology lab?* Poster presented at the 6th Annual Symposium on STEM Education, CU Boulder.
- **Casagrand J** (2013) *Incorporation of screencasts in an upper division Integrative Physiology course to overcome variability in students' incoming competency and preparedness*. Poster presented at the 5th Annual Symposium on STEM Education, CU Boulder.
- **Casagrand J** (2013) *Effectiveness of in-class worksheet activities for improving learning of electrochemical gradients and equilibrium potentials*. Poster presented at the 27th Annual Human Anatomy and Physiological Society (HAPS) Conference, Las Vegas, NV.
- **Casagrand J** and Foley T (2013) *Student Perceptions and Learning Gains in a Reformed IPHY Physiology Lab Course*. Poster presented at the 5th Annual Symposium on STEM Education.
- Holmstead E, Foley T, **Casagrand J**, and Bustamante H (2012) *What we learned when transitioning physiology labs from a cookbook to inquiry-based format*. Poster presented at the 4th Annual Symposium on STEM Education.
- **Casagrand J** (2012) *Effectiveness of in-class worksheet activities for improving learning of electrochemical gradients and equilibrium potentials*. Poster presented at the Rocky Mountain Regional Neuroscience Group.

- **Casagrand J** and Bustamante H (2012) *Student study strategies in undergraduate physiology courses*. Poster presented at the CU Science Education Initiative (SEI) and Integrating STEM Education (iSTEM) end-of-year event.
- Bustamante H and **Casagrand J** (2012) *Student attitudes on critical thinking in undergraduate physiology courses*. Poster presented at the CU Science Education Initiative (SEI) and Integrating STEM Education (iSTEM) end-of-year event.
- Holmstead E, Foley T, **Casagrand J**, and Bustamante H (2012) *What we learned when transitioning physiology labs from a cookbook to inquiry-based format*. Poster presented at the CU Science Education Initiative (SEI) and Integrating STEM Education (iSTEM) end-of-year event.
- **Casagrand J** (2012) *Effectiveness of in-class worksheet activities for improving learning of electrochemical gradients and equilibrium potentials*. Poster presented at the CU Science Education Initiative (SEI) and Integrating STEM Education (iSTEM) end-of-year event.
- **Casagrand J** (2011) *Positive student reaction to case studies in an upper division neurophysiology course*. Poster presented at the 12th Annual Conference on Case Study Teaching in Science, Buffalo, New York.
- Bentley F, **Casagrand J**, Blanco J, Perkins K, Podolefsky N (2011) *Neuron Simulation: Allowing Students to Visualize the Invisible During the Action Potential*. Poster presented at the American Physiological Society Experimental Biology Conference.
- Bentley F, **Casagrand J**, Blanco J, Perkins K, Podolefsky N (2011) *Neuron Simulation: Allowing Students to Visualize the Invisible During the Action Potential*. Poster presented at the CU Science Education Initiative end-of-year event.
- **Casagrand JL** (2010) *Don't have a pre-post test? Use a Bloom's rubric! The development and validation of a rubric for "Blooming" assessments to measure course reform*; Poster presented at the CU Science Education Initiative end-of-year event.
- **Casagrand JL** (2009) *Introducing Challenging Coursework: Using partner work to improve student attitudes towards challenging tasks*. Poster presented at the CU Science Education Initiative end-of-year event.

ADDITIONAL TEACHING ACTIVITIES & SERVICE

PROFESSIONAL

- Human Anatomy & Physiology Society (HAPS) *Educator* Editorial Board, 2012-**present**.
- Reviewer, Human Anatomy & Physiology Society (HAPS) *Educator*, 2013 - **present**.
- Reviewer, *Advances in Physiology Education*, **2017**.
- Interviewee: CU-Boulder Center for STEM Learning project, supported by the AAU, **2017**.
- Evaluated Physiology Educational Research Consortium (PERC) project on core physiology concepts, **2015 - 2017**.
- NSF *Creating Academic Pathways in STEM* (CAPS) Diversity Taskforce, University of Colorado Boulder, **2015-2017**.
- Co-organizer and presenter, National TRESTLE (Transforming Education, Stimulating Teaching & Learning Excellence) online discussion group: *Leading Departmental Change*, **2016**.
- Author & Subject Matter Expert for Wiley Publishing, *Derrickson's Human Physiology*, 1st edition. Authored ~900 learning goal-based assessment and student practice questions, **2016**.
- Wiley Publishing Advisory Board, **2015 - 2016**.
- National *Measurement Instrument for Scientific Teaching* (MIST) project participant, **2015 - 2016**.

- STEM Course Transformation discussions with faculty and administrators from University of Texas Austin, **2016**.
- Wiley EdTech Focus Group for Human Physiology, **2015**.
- Physiology Assessment (Phys-MAPS) focus group: aided in development of a tool to assess student learning and understanding of core physiology concepts, **2015**.
- Human Anatomy & Physiology Society Curriculum and Instruction Committee, 2012 - **2014**.
- Human Anatomy & Physiology Society Testing Committee, 2012 - **2014**.
- NSF/TUES-funded project: *Defining and assessing the core principles of physiology*, Faculty Cohort Member, 2012 - **2014**.
- Expert Advisory Panel, Kuracloud Project to develop an online, cloud-based data collection and presentation tool for use in student labs, ADInstruments, **2013-2014**.
- Interviewee: CU-Boulder Center for STEM Learning project, supported by the AAU, **2014**.
- Human Anatomy & Physiology Society (HAPS) Taskforce on Lab Outcomes, **2013**.
- Author & Subject Matter Expert, McGraw-Hill LearnSmart® online diagnostic learning system for *Vander's Human Physiology*, 13th edition. Authored learning goals (450) and questions (900), 2013.
- Elsevier focus group, *Electronic Resources in Anatomy and Physiology Education*, 2013.
- Reviewer, introductory neuroscience textbook for Oxford Press, 2012.
- Organized national workshop on AD Instruments *LabChart & LabTutor*, UCB, 2012.
- Invited Facilitator: U.S. Air Force Academy Scholarship of Teaching and Learning Workshop; U.S. Air Force Academy, Colorado Springs CO, 2009.

UNIVERSITY

- Academic Technologies Advisory Group, **2017-present**.
- ASSETT (Arts & Sciences Support of Education Through Technology) Advisory Board, **2017-2019**.
- Co-chair, OIT Faculty Working Group, *Learning Management System (LMS) Evaluation and Selection Project*, **2016–2017**.
- OIT Lead Team, *Learning Management System Evaluation and Selection Project*, **2016–2017**.
- Instructor-Track Faculty Affairs Committee, 2013–**present**.
- University of Colorado Boulder Leadership Institute, **2014-present**
- Tier 2 Computer Support Representative for ITS, 2003–**present**.
- BFA Nominations and Elections Committee, **2016–2017**.
- University of Colorado Boulder Provost's ePortfolio Pilot Program, **2015 – 2016**.
- BFA Faculty Mentoring/Advising Program Planning Committee, **2014 - 2016**.
- BFA Faculty Mentoring Program, 2013 - **2016**.
- Prehealth Advisory Committee (PAC), 2012-**2016**.
- Advisory Board, CU Boulder chapter of Camp Kesem, 2013-**2016**.
- Provost's Persistence Taskforce, Faculty-Staff Engagement Subcommittee, **2015**.
- BFA Leadership Institute, ePortfolio subcommittee, **2015**.
- ASSETT Testing and Assessment focus group, **2015**.
- Chancellor's Desire to Learn (D2L) focus group, an OIT-mediated faculty meeting with representatives from D2L, **2015**.
- University of Colorado Boulder iClicker 7 and D2L integration pilot study, **2015**
- Department representative, *New Student Welcome Day-Academic Fair*, **2015**.
- Classroom Observation Protocol, OIT pilot program participant, **2015**

- Undergraduate Thesis Committee member, Bryan Koppa – Psychology, **2014**.
- Assisted faculty members from other departments with Camtasia screencasting, **2013-2014**.
- Online Learning Environment (OLE) review committee, 2013.
- Responsible Conduct for Research (RCR), Discussion Leader, 2012.
- Research and Projects Mentor, 2011, Miramontes Arts and Science Program, Program for Excellence in Academics and Community.

1 DEPARTMENTAL

- Supervised 26 Internships and 4 Independent Studies in the past four years
- Write ~35-45 letters of recommendation annually for Post-baccalaureate Allied Health Programs
- Boulder Faculty Assembly (BFA) Departmental representative, **2015 - present**
- IPHY Curriculum Coordinator, **2016 - 2017**.
- IPHY Departmental Action Team (DAT), an AAU-funded project; acted as liaison with AAU project coordinators, recruited IPHY faculty to DAT and served on IPHY DAT, **2014-2016**.
- IPHY Physiology Lab Statistics Ad hoc Committee, **2015-2016**.
- IPHY Departmental Action Team (DAT), an AAU-funded project; acted as liaison with AAU project coordinators, recruited IPHY faculty to DAT and served on IPHY DAT, **2014-2016**.
- IPHY Primary Unit Evaluation Committee (PUEC) committee member, **2016**.
- Performed 10 Faculty Peer Reviews, 2005-**2016**.
- Interviewed 6 STEM Education IPHY/EBIO job candidates, **2016**.
- Wrote article, *IPHY and the STEM Revolution*, for IPHY department newsletter, **2015**.
- Wrote letter of support for faculty member for the BFA Faculty Teaching Award, **2014, 2011**.
- IPHY Physiology Lab Revision Committee, 2010-2013.
- IPHY Space Committee, 2005–2013.
- IPHY Neurophysiology & Biomechanics lab upgrades, 2012.
- Faculty working group to update/revise learning goals for IPHY 3470, 2012.
- IPHY Degree Day Committee, 2012.
- Wrote letter of support for faculty member for the President's Teaching Scholar Award, 2012.
- Faculty working group to develop learning goals for IPHY 4720, 2009-2010.
- Faculty working group to eliminate overlap between IPHY 3470 and IPHY 3480, 2010.
- Publicity Committee, 2005 – 2006, 2007- 2010.
- Lab coordinator (Clare 111 labs)
- Coordinator of departmental teaching equipment resources, 2003 -2008.
- Departmental Identity Committee, 2006 – 2007.
- Biomechanics Search Committee, 2006.
- Ad Hoc Server Committee, 2005.

OUTREACH

- Grass Foundation Neuroscience Outreach Training Workshop, Woods Hole, MA, **2016**.
- Created and posted 10 neurophysiology videos to YouTube, 2013.
- CU Boulder PhET (Physics Education Technology) development team (2009-2010) to create a free **educational neuron computer simulation** for use in high school and undergraduate courses. Accessible at: <http://phet.colorado.edu/en/simulation/neuron>. Viewed over 175,000 times since 2010.
- Interviewee in two 'Clickers in the Classroom' **instructional videos**: "*Anatomy of a Clicker Question*", and "*How to use clickers effectively*" on the Carl Wieman Science Education Initiative website: http://www.cwsei.ubc.ca/resources/SEI_video.html, 2008.