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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 (UCB).
- Instructor, 2002-2013, Dept. of Integrative Physiology, UCB.
- Professional Research Associate, 2001-2002, Dept. of EPO Biology, UCB with Dr. Pei-San Tsai.
- Professional Research Associate, 1997-2001, Dept. of EPO Biology, UCB with Dr. Robert Eaton.
- Postdoctoral Research Associate, 1994-1997, Advisor: Dr. Robert Eaton, Center for Neuroscience, UCB.
- Postdoctoral Fellow, 1992-1994, Division of Neurobiology, University of Arizona Tucson.
- Postdoctoral Research Associate, 1991-1992, Division of Neurobiology, University of Arizona Tucson.

PROFESSIONAL AND ACADEMIC HONORS/AWARDS

- **2023-2024**, *Teaching, Learning and Technology **Faculty Fellow***, Center for Teaching and Learning, UCB.
- **2023**, 2019, 2017, 2015, 2014, 2013, 2011: Arts and Sciences Fund for Excellence, Travel Award, UCB.
- **2023**, 2019, 2018, 2017: Arts and Sciences Instructor Travel Award, UCB.
- **2022**, **Award for Excellence in Leadership and Service**, Boulder Faculty Assembly, UCB.
- **2020**, **Marinus Smith Teaching Award**, CU Boulder New Student & Family Programs.
- **2020**, Professor Appreciation Dinner, *Delta Delta Delta Sorority*, University of Colorado Boulder.
- **2020**, Featured in ASSETT newsletter, *Lecture Capture Offers Far More Benefits Than You Might Think*.
- 2018-2019, **Chancellor's Award for Excellence in STEM Education**, *Curriculum Mapping: An essential tool for undergraduate curriculum development*, UCB.
- 2019, Human Anatomy and Physiology Society (HAPS) poster award, 33rd Annual Conference.
- 2018, **Excellence in Teaching with Technology Award**, ASSETT, UCB.
- 2016, **Course Development Award**, Transforming Education, Supporting Teaching and Learning Excellence (TRESTLE) - National Science Foundation, *Development and implementation of case studies across the foundational IPHY curriculum – a continuation of the SEI effort*.
- 2015, **Sam Drogo Technology in the Classroom Award**, Human Anatomy and Physiology Society.
- 2015, Boulder Faculty Assembly (BFA) **Faculty Recognition Award**, UCB.
- 2015, Summer Session Online **Course Development Grant**, Office of Associate Vice Chancellor, UCB.
- 2014-2015, Boulder Faculty Assembly (BFA) **Leadership Institute**, UCB.
- 2013, **ASSETT Technology Development Award**, UCB.
- 2011-2012, **Chancellor's Award for Excellence in STEM Education**, *Evaluation of the Effectiveness and Success of Inquiry-Based Laboratories in IPHY*, UCB.
- 2009, **President's Teaching and Learning Collaborative (PTLC) Award**, *Measuring Course Reform through the Cognitive Difficulty of Exams*.

PROFESSIONAL MEMBERSHIPS

- Human Anatomy and Physiology Society (HAPS)
- Physiology Majors Interest Group (PMIG)

TEACHING EXPERIENCE

- Full-time instructor (2002-**present**), Integrative Physiology, University of Colorado Boulder.

Courses taught include:

- IPHY 1010: Introduction to Kinesiology
 - IPHY 3020: Next Steps: Preparing for life after graduation
 - IPHY 3430: Human Physiology (face-to-face, hybrid remote/online)
 - IPHY 3435: Physiology Lab (lab coordinator, instructor)
 - IPHY 3437: Virtual Physiology Lab (instructor, lab coordinator; hybrid remote/online)
 - 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 (UGTA) Training Seminar
 - IPHY 4100: Undergraduate Colloquium in Integrative Physiology
 - IPHY 4440: Endocrinology (online)
 - IPHY 4660: Critical Thinking - Neurobiology of Disease
 - IPHY 4720 Neurophysiology (instructor, lab coordinator; face-to-face, online, hybrid remote/online)
 - 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 INVITED GUEST LECTURES

- **2023, 2022, 2021**, *Active Learning - Strategies for Being More Successful at Learning*, IPHY 1020: Introduction to Integrative Physiology, UCB.

INVITED WORKSHOPS AND PRESENTATIONS

- **2022, Co-panelist**, Office of Faculty Affairs Workshop: *Finding Purpose in Academic Service*.
- **2021, Co-lead**, UCB New Faculty Orientation, *Building Community & Faculty Support*.
- **2020, Co-facilitator**, ASSETT (Arts and Sciences Support of Excellence in Teaching through Technology) *Active Learning Academy: Learning by Design* (semester-long faculty training), UCB
- **2019, Co-panelist**, Leadership in Educational Administration Program (LEAP) panel discussion for instructor track faculty.
- 2018, **Invited speaker**, *Fostering higher-order cognitive skills in the teaching and learning of physiology*, in the *Addressing Higher Levels of Bloom's Taxonomy in the Teaching and Learning of Physiology Symposium*, **Experimental Biology Conference**, San Diego CA.
- 2016, **Invited speaker**, *Case Study Workshop*, 2nd Annual TRESTLE (*Transforming Education - Supporting Teaching & Learning Excellence*) Meeting & Course Transformation Institute, UCB.
- 2016, **Invited speaker**, *Case Study Discussion Group*, TRESTLE Shared Innovation Discussion Group meeting, UCB.
- 2016, **Invited speaker**, *What does a transformed course look like?*, 1st Annual TRESTLE Meeting and Course Transformation Institute, University of Kansas.
- 2015, **Invited speaker**, *Google+ Communities Workshop*, ASSETT Innovation Pit Stop, UCB.

- 2014, **Invited speaker**, *Screencasts for Student Review*, ASSETT Annual Teaching with Technology Symposium, UCB.
- 2012-2013, **Invited speaker - 9 workshops**, *How to Learn Anatomy and Physiology Effectively*, Student Academic Success Center (SASC), UCB.
- 2013, **Invited speaker**, *Learning Strategies to Succeed in Your Science Courses*, Center for Multicultural Affairs, UCB.
- 2012, **Invited speaker**, *Examining Students' Attitudes about Critical Thinking*, Graduate Teacher Program Teaching Institute for Graduate Education Research (TIGER) workshops, UCB
- 2009, **Invited speaker**, *Introducing Challenging Coursework - Asking, and Reflecting On, What's Working*; CU Science Education Initiative end-of-year event, UCB.
- 2009, **Facilitator**: U.S. Air Force Academy Scholarship of Teaching and Learning Workshop; U.S. Air Force Academy, Colorado Springs CO.

OTHER WORKSHOPS PRESENTED

- **2024**, *Curious about long-COVID? 38th Human Anatomy and Physiology Society (HAPS) Conference*, St. Louis. Co-presenters: Judi Nath and Wendy Riggs.
- **2024**, *HAPS Exam Program 2024 Update: New A&P exams in development, and the latest information about the HAPS comprehensive A&P and stand-alone anatomy exams*. 38th HAPS Conference, St. Louis. Co-presenters: Dee Silverthorn and Valerie O'Loughlin.
- **2023**, *How to use the HAPS Physiology Learning Outcomes*. 37th HAPS Conference, New Mexico.
- **2022**, *Development of the HAPS physiology learning outcomes, and the latest information about the HAPS comprehensive A&P and stand-alone anatomy exams*. 36th HAPS Conference.
- **2021**, *Adapting a hands-on, group-based lab course to an online format*, **Colorado Learning and Teaching with Technology (COLTT) Conference**. UCB (online).
- **2021**, *Creating a manipulatable activity for small group, online breakout discussion*, **Colorado Learning and Teaching with Technology (COLTT) Conference**. UCB (online)
- 2021, *HAPS Exam Program Update: Secure, Proctored, Online A&P and Stand-Alone Anatomy Exams, & Development of Physiology Learning Outcomes*, 35th HAPS Conference, virtual.
- 2020, *Using the HAPS Exam*, Human Anatomy and Physiology Society Virtual Regional Conference.
- 2020, *Human Anatomy and Physiology Society (HAPS) Exam Program*, HAPS Town Hall.
- 2019, *Challenges encountered when integrating case studies across a foundational anatomy and physiology sequence*, 33rd Human Anatomy & Physiological Society Conference workshop, OR.
- 2017, *Developing and incorporating interrupted case studies into your anatomy and physiology course(s)*. 31st Human Anatomy and Physiological Society Conference workshop, UT.
- 2017, *Multiple Measures of Assessment*. Department of Integrative Physiology.
- 2015, *Screencasts and Lecture Capture – Tips and Best Practices*. 29th Human Anatomy and Physiological Society Conference workshop, TX.
- 2015, *Bloom's taxonomy - a way to determine cognitive level of course materials when used correctly*. 29th HAPS Conference workshop, TX.
- 2014, *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*. 28th Annual HAPS Conference, FL.
- 2013, *Accomplishing Learning Goals with Worksheets - An Active Learning Technique for Enhancing Student Learning of Key Concepts*, 27th Annual HAPS Conference workshop, NV.

- 2013, *Evaluation of the Effectiveness and Success of Inquiry-Based Laboratories in IPHY*, Discipline-Based Educational Research Seminar Series, UCB.
- 2012, *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.
- 2009, *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.

CONFERENCE PRESENTATIONS

- Foley T, **Casagrand J (2023)** *Development of a Three-Year Student Learning Assessment Plan in Integrative Physiology*, Physiology Majors Interest Group (PMIG) Conference, Univ of Oregon.
- **Casagrand J (2022)** *Adapting a hands-on, group-based lab course to an online format*. Poster presented at the Center for STEM Learning (CSL) Symposium, CU Boulder.
- Foley T, **Casagrand J (2019)** *Development of a curriculum map in Integrative Physiology to provide a mechanism for assessing undergraduate student achievement of departmental program goals*. Poster presented at the 11th Annual Symposium of STEM Education, CU Boulder.
- **Casagrand J**, Heisler R, Foley T (2019) *Challenges encountered when integrating case studies across a foundational anatomy and physiology sequence*. Poster presented at the 33rd Annual Human Anatomy & Physiological Society (HAPS) Conference, OR.
- Heisler R, **Casagrand J**, Foley T (2019) *Department Education Specialists in Integrative Physiology: A new approach to sustaining STEM transformation*. Poster presented at the 33rd HAPS Conference, OR.
- **Casagrand J**, Foley T, Heisler R (2016) *Challenges encountered when integrating case studies across the foundational IPHY curriculum*. Poster presented at 7th Annual Symposium on STEM Education, UCB.
- 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 7th Annual Symposium on STEM Education, UCB.
- **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 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**, Foley 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 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 HAPS Conference, NV.
- **Casagrand J**, 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, UCB.
- 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 4th Annual Symposium on STEM Education, UCB.
- **Casagrand J** (2012) *Effectiveness of in-class worksheet activities for improving learning of electrochemical gradients and equilibrium potentials*. Poster presented at Rocky Mountain Regional Neuroscience Group.
- **Casagrand J**, 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, **Casagrand J** (2012) *Student attitudes on critical thinking in undergraduate physiology courses*. Poster presented at the CU SEI and 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 SEI and 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 SEI and 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 (APS) 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 SEI 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 SEI 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 SEI end-of-year event.

PUBLICATIONS

- Tomicek N, Cafferty P, **Casagrand J**, Co E, Flemming M, McFarland J, O'Loughlin V, Scott D, Silverthorn D (2023) Physiology Learning Outcomes to guide undergraduate education: a HAPS initiative. *Advances in Physiology Education*.
- Silverthorn D, Cafferty P, **Casagrand J**, Co E, Flemming M, McFarland J, O'Loughlin V, Scott D, Tomicek N (2023) *Introducing the HAPS Physiology Learning Outcomes*. Human Anatomy and Physiology Educator.
- Human Anatomy and Physiology Society (2023) HAPS Physiology Learning Outcomes [online resource]. URL: https://www.hapsweb.org/page/Learning_Outcomes. Creative Commons License.
- **Casagrand J**, Foley T (2020) Development of a curriculum map to assess undergraduate student achievement of departmental program goals. Human Anatomy and Physiology Society *Educator*.
- **Casagrand JL**, Semsar K (2017) Redesigning a course to help students achieve higher-order cognitive thinking skills: from goals and mechanics to student outcomes. *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 PROFESSIONAL DEVELOPMENT ACTIVITIES

- 2023, UnDocuAlly Training, CU Boulder.
- 2023, Human Anatomy and Physiology Virtual Conference: 9/5-9/29.
- 2023, 37th Annual Human Anatomy and Physiology Conference: 4-day, Albuquerque, New Mexico.
- 2022, semester-long *Online Learning Academy*, CU Boulder.

- **2022**, *Timely Tips for Teaching Reproduction*, webinar, Cengage/HAPS.
- **2022**, *Tips on Teaching Immunology*, webinar, Cengage/HAPS.
- **2021**, *Teaching Evaluation with TEVAL*, Accelerating Systemic Change Network (ASCN) working group.
- **2021**, ***Diversity, Equity & Inclusion (DEI) - LGBTQ Inclusive Teaching - Why Language Matters***, webinar, Human Anatomy & Physiology Society.
- **2021**, ***Diversity, Equity & Inclusion (DEI) - Transforming your course to be more inclusive and accessible for all learners***, webinar, Human Anatomy & Physiology Society.
- **2021**, ***Implicit Bias and Stereotype Threat*** webinar, American Physiological Society.
- **2021**, Anatomy & Physiology Virtual Teaching and Learning Community.
- **2021**, ***Equitable Teaching Conference***, Center for Teaching and Learning (CTL), UCB (virtual).
- **2021**, 35th Annual Human Anatomy and Physiology Conference: 4-day (virtual).
- **2021**, *Examining the Anatomy and Physiology Lab Experience*, webinar, American Physiological Society.
- **2021**, 24th Colorado Learning and Teaching with Technology (COLTT) 4-day Conference (virtual).
- **2021**, Regional Human Anatomy and Physiology Conference (virtual).
- **2021**, Anatomy & Physiology Virtual Teaching and Learning Community.
- **2021**, *Regulatory mechanisms in the control of oxygen intake and blood pressure*, webinar, APS.
- **2021**, *Understanding COVID's long game*, webinar, The Scientist.
- **2021**, *Core Concepts of Physiology*, Physiology Majors Interest Group (PMIG), remote discussion.
- **2021**, *Supporting Students in Their Lifelong Journey*, webinar, Cengage.
- **2020**, Arts and Sciences Support of Excellence in Teaching through Technology (ASSETT)'s semester-long *Active Learning Academy: Peer Mentoring*, UCB.
- **2020**, ***Supporting a diverse student body during the pandemic***, remote, Chronicle of Higher Education.
- **2020**, *Online Exams*, remote workshop, American Physiological Society (APS).
- **2020**, *How to create dynamic learning environments for students*, webinar, Chronicle of Higher Education.
- **2020**, *Online A&P Labs*, remote townhall, Human Anatomy and Physiology Society.
- **2020**, *Preparing a Teaching Portfolio for Review and Tenure*, Center for Teaching and Learning, UCB.
- 2019, ASSETT's semester-long *Active Learning Academy: Learning by Design*, UCB.

ADDITIONAL TEACHING AND SERVICE ACTIVITIES

PROFESSIONAL SOCIETIES/ORGANIZATIONS

- **2024**, **Lead**, Human Anatomy and Physiology Society (HAPS) Anatomy & Physiology Expert Panel – to develop higher level assessment questions for a comprehensive, national A&P exam.
- **2020-present**, **Steering Committee**, Human Anatomy and Physiology Society (HAPS).
- **2020-present**, **Section Lead**, Anatomy & Physiology, **HAPS** Exam Program.
- **2019-present**, **Physiology Expert Panel**, Human Anatomy & Physiology Society (HAPS) - to develop learning outcomes for a typical one-semester, undergraduate physiology course appropriate for a range of settings (2- & 4- year, with diverse student populations), and questions for a validated, national Physiology exam.
- **2013–present**, Reviewer, Human Anatomy & Physiology Society *Educator*, 2-3 manuscripts per year.
- **2022**, Reviewer: *Journal of Science Education and Technology*.
- 2018, Reviewer: *Teaching and Learning in Medicine*.
- 2018, Evaluator: *Periscope project* (NSF-supported, multi-institution online training videos on best teaching practices).

- 2012-2018, Human Anatomy & Physiology Society (HAPS) *Educator* Editorial Board.
- 2017, Reviewer, *Advances in Physiology Education*.
- 2015-2017, evaluator, Physiology Educational Research Consortium project: Core Physiology Concepts.
- 2015-2017, NSF *Creating Academic Pathways in STEM* (CAPS) Diversity Taskforce, UCB.
- 2016, 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.
- 2015-2016, Wiley Anatomy & Physiology **Advisory Board**.
- 2015-2016, National *Measurement Instrument for Scientific Teaching* (MIST).
- 2016, STEM Course Transformation discussions, faculty and administrators from Univ. of Texas Austin.
- 2015, Physiology Assessment (Phys-MAPS) aided in development of a tool to assess student learning and understanding of core physiology concepts.
- 2012-2014, Human Anatomy & Physiology Society Curriculum and Instruction Committee.
- 2012-2014, Human Anatomy & Physiology Society Testing Committee.
- 2012-2014, NSF/TUES-funded project: *Defining & assessing the core principles of physiology*, Faculty Cohort Member.
- 2012-2013, **Expert Advisory Panel**, Kuracloud Project, ADInstruments.
- 2013, 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).
- 2012, Reviewer, introductory neuroscience textbook for Oxford Press.
- 2012, Organized national workshop on AD Instruments *LabChart & LabTutor*, UCB.

UNIVERSITY & COLLEGE

- **2023-present**, CU Boulder IT Governance Group, **Student and Academic Technology Committee**.
- **2023-present**, OIT's Academic Technologies **Advisory Group** (ATAG).
- **2021-present**, **Dean's Advisory Group** on Teaching Professors.
- **2020-present**, **Chair**, Boulder Faculty Assembly (BFA) *Academic Technology & Services Committee* (ATSC).
- **2019-present**, **Chair**, Arts & Sciences Support of Education Through Technology (ASSETT) **Advisory Board**.
- **2018-present**, BFA **Executive Committee**.
- **2019-present**, resource member, BFA *Instructor Track Faculty Affairs Committee*.
- **2017-present**, ASSETT Advisory Board member.
- **2023**, **A&S Search Committee** member, Associate Dean for Faculty Success.
- **2023**, CU Boulder **IT Governance and Visioning Executive Committee**: *Designing the future IT Governance*.
- **2023**, Presentation to A&S Chair's Council on proposed revisions to the academic calendar.
- **2023**, Boettcher scholar interviews
- **2023**, BFA *Award for Excellence in Service* committee member.
- **2023**, met with OIT User Experience Research and Design Team to discuss Classroom Capture.
- **2022**, **CU Search Committee** member, Assistant Vice Provost and Assistant Vice Chancellor (AVP/AVC) for Academic Technology and Student Success.
- **2022**, BFA *Award for Excellence in Research, Scholarly and Creative Work* committee member.
- **2021-2022**, Arts & Sciences Faculty Senate *Planning Committee* member.
- **2019-2021**, Arts & Sciences Council *Faculty Affairs ad-hoc Committee* member.

- 2018-2021, Arts & Sciences Instructor **Task Force** and Task Force Implementation Team member.
- 2021, **Chair**, BFA *Award for Excellence in Leadership and Service* committee member.
- 2021, **Co-chair**, BFA/**Provost** Proctorio (online exam proctoring software) subcommittee.
- 2021, BFA Executive Committee representative, Dean of Undergraduate Education search.
- 2021, CU Research Computing (CURC) Strategic Direction and Visioning working group member.
- 2021, OIT Canvas Faculty Focus Group on Canvas autcourse creation.
- 2021, Tester and interviewee, OIT iClicker Reef Roster Grade Sync pilot.
- 2021, Interviewee, OIT Canvas Course Design and Support Project.
- 2020, BFA Executive Committee/CU Administration **COVID-19 Response Team**.
- 2018-2019, **Chair**, BFA Instructor Track Faculty Affairs Committee (term-limited).
- 2013-2019, BFA Instructor Track Faculty Affairs Committee member.
- 2019, BFA Excellence in Teaching Award committee member.
- 2019, BFA Ad-hoc committee for campus-wide faculty survey.
- 2019, Undergraduate Thesis Committee member, Nicholas Brennan – Psychology & Neuroscience.
- 2019, Department representative for A&S College Day: *Make a Major Impact Fair*.
- 2019, Interviewee: OIT CidiLabs Pilot program.
- 2019, Interviewee: OIT Classroom Capture service.
- 2018, Co-presenter, Center for STEM Learning (CSL) Transforming Education, Stimulating Teaching & Learning Excellence (TRESTLE) informational meeting on Scholars Program.
- 2017-2020, Academic Technologies **Advisory Group** (ATAG) member.
- 2014-2020, University of Colorado Boulder **Leadership Institute** meetings.
- 2003-2020, Tier 2 Computer Support Representative for ITS.
- 2016-2017, **Co-chair**, OIT Faculty Working Group, *Learning Management System Evaluation and Selection Project*.
- 2016-2017, OIT **Lead Team**, *Learning Management System Evaluation and Selection Project*.
- 2015-2016, UCB **Provost's** ePortfolio Pilot Program.
- 2014-2016, BFA Faculty Mentoring/Advising Program Planning Committee member.
- 2013-2016, BFA Faculty Mentoring Program member.
- 2012-2016, Prehealth **Advisory Committee** (PAC) member.
- 2013-2016, Advisory Board, CU Boulder chapter of Camp Kesem.
- 2015, **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 with D2L representatives.
- 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.
- 2014, Undergraduate Thesis Committee member, Bryan Koppa – Psychology.
- 2013-2014, Assisted faculty members from other departments with Camtasia screencasting.
- 2013, Online Learning Environment (OLE) review committee.
- 2012, Responsible Conduct for Research (RCR), Discussion Leader.
- 2011, Research Project Mentor, Miramontes Arts and Science Program, Program for Excellence in Academics and Community.

DEPARTMENTAL

- **2022-2023**, *CUs Program Learning Assessment Plan*, UCB
- 2015–**present**, Boulder Faculty Assembly (BFA) Departmental representative.
- **2024**, Honors Committee member
- **2023**, **Lead**, IPHY 3430 Working Group to review and revise IPHY 3430 learning goals and discuss alignment.
- 2022, 2019, 2016: IPHY Primary Unit **2022-2023**, *CUs Program Learning Assessment Plan*, UCB
- **2023**, **Lead**, IPHY 3430 Working Group to review and revise IPHY 3430 learning goals and discuss alignment.
- Evaluation Committee (PUEC) committee member.
- 2021, Graduate committee subcommittee – to develop IPHY Graduate Student TA Best Practices and Expectations Manual.
- 2020, **Lead**, IPHY 3430 Working Group - To redesign majors two-semester course into one-semester course, revise learning goals, and develop recitation activities and quizzes.
- 2016-2020, Department Education Specialist: develop departmental learning goals and faculty teaching survey, and provide faculty with teaching-related technical & pedagogical assistance.
- 2019, Revise IPHY 3435: Physiology Lab to conform with new major sequence.
- 2019, ARPAC External Review meetings: Curriculum Committee, and Instructor/Senior Instructor
- **Annually**, write ~20-40 letters of recommendation annually for graduate and undergraduate students pursuing graduate/professional education, including meeting with students and providing interview, personal essay, and/or job application advice.
- Supervised 28 Internships and 8 Independent Studies.
- 2018, Departmental Retreat.
- 2018, ARPAC Infrastructure Workgroup.
- 2018, ARPAC Instructor Focus Group.
- 2018, 2014, 2011: Wrote letters of support for faculty member for the BFA Faculty Teaching Award.
- 2005-2019, Performed 13 Faculty Peer Reviews.
- 2014-2016, 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.
- 2015-2016, IPHY Physiology Lab Statistics ad hoc Committee.
- 2014-2016, 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.
- 2016, Interviewed 6 STEM Education IPHY/EBIO job candidates.
- 2015, Wrote article, *IPHY and the STEM Revolution*, for IPHY department newsletter.
- 2010-2013, IPHY Physiology Lab Revision Committee.
- 2005-2013, IPHY Space Committee.
- 2012, 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.
- 2009-2010, Faculty working group to develop learning goals for IPHY 4720.
- 2010, Faculty working group to eliminate overlap between IPHY 3470 and IPHY 3480.
- 2005 – 2006, 2007- 2010: Publicity Committee.
- 2003-2008, Lab coordinator (Clare 111 labs)

- 2003-2008, Coordinator of departmental teaching equipment resources.
- 2006-2007, Departmental Identity Committee.
- 2006, Biomechanics Search Committee.
- 2005, Ad Hoc Server Committee.

OUTREACH

- 2021, Drew University undergraduate mentor
- 2016, Grass Foundation Neuroscience Outreach Training Workshop, Woods Hole, MA.
- 2013, Created and posted 10 neurophysiology videos to YouTube.
- 2009-2010, CU Boulder PhET (Physics Education Technology) **development team** to create a free neuron computer simulation. Accessible at: <http://phet.colorado.edu/en/simulation/neuron>. Viewed over 175,000 times.