

CURRICULUM VITAE

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WISCIENCE
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Education

- 1992 - 1996 Ph.D. Physiology, University of Wisconsin, Madison
Thesis Advisor: Meyer Jackson
Thesis: The Role of Calcium Channels in Stimulus-Secretion
Coupling
- 1990 – 1992 M.S. Physiology, University of Wisconsin, Madison
- 1986 – 1990 B.S. Zoology with German minor, Iowa State University

Professional Positions

- 2014 – present Assistant Professor, Department of Kinesiology, School of Education,
University of Wisconsin – Madison
- 2014 – present Faculty Director, Wisconsin Institute for Science Education and
Community Engagement (WISCIENCE), UW-Madison
- 2014 – present Associate Director, Mentor Training Core, National Research Mentoring
Network
- 2011 – 2014 Interim Director, Institute for Biology Education, UW-Madison
- 2010 – present Faculty Associate, Institute for Biology Education, UW-Madison
(Previously Institute for Cross-College Biology Education)
Undergraduate Education and Research
- 2010 – present Researcher, Wisconsin Center for Education Research, UW-Madison
- 2005 – 2010 Associate Faculty Associate, Institute for Biology Education, UW-Madison
Undergraduate Education and Research
- 2001 – 2004 Student Services Coordinator, Center for Biology Education, UW-Madison
Undergraduate Education and Research
- 1998 – 2004 Lecturer, Department of Physiology, UW-Madison
- 1997 – 1998 Postdoctoral Fellow, Department of Physiology, UW-Madison

Advisor: Gail Robertson

1996 – 1997 Lecturer, Department of Anatomy, UW-Madison

Honors and Awards

2011 Alliant Energy Underkofler Excellence in Teaching Award, University of Wisconsin System

2010 – present Member, UW-Madison Teaching Academy

2009 - 2010 Biology Scholars Research Residency Fellow
Research Project: Metacognition and Study Skills in Honors Biology Students

1993 – 1995 American Heart Association Pre-doctoral Fellowship

1993 Bette Barnes Teaching Excellence Award, Department of Physiology, UW-Madison

1990 Phi Beta Kappa Honor Society

1990 Cardinal Key Senior Honorary, Iowa State University

1990 Women in Science and Engineering Research Intern
Iowa State University, Department of Zoology
Mentors: Professor Philip G. Haydon and Dr. Mark Zoran
Project: Formation and modulation of motor function at identified neuromuscular junction in *Helisoma*

Teaching

Classroom Instruction

2016 – present **Kinesiology 235 – Human Physiology and Health** (4 credits)
New course developed for non-science and prospective health sciences majors

2014 **Biology 100 – Exploring Biology Freshman Seminar** (2 credits)
Course Chairperson
Mentor Graduate Student and Postdoctoral Teaching Fellows in preparing the teaching the course

2006 – 2015 **Biology 260/261 - Entering Research Seminars** (1 credit each)
Course Chairperson
Teach both seminars, 15 sessions each
New course developed for students in the Undergraduate Research and Mentoring (URM) program; now open to all students.

- 2008 – 2014 **DSS 812 – Research Ethics and Professional Skills** (1 credit)
 Guest Lecture, Research Ethics and Career Development course,
 “Mentoring/Lab Supervision”
 UW-Madison School of Veterinary Medicine
- 2006 – 2008 **Biology 152 - Introductory Biology** (5 credits)
 Section Chairperson
 Animal physiology, 15 lectures
- 2002 – 2011 **Biocore 323 - Honors Organismal Biology** (3 credits)
 Course Chairperson, 2005 – 2011
 Animal physiology, 12 power lectures
- 2004 – present **Biology 660 - Entering Mentoring Seminar** (1 credit)
 Principles of effective research mentoring, 8 sessions
- 2002 – 2006 **Biology 150 – Ways of Knowing Biology** (1 credit)
 Course Director
 Faculty research presentations, student beyond the classroom research
 explorations and graduate student shadowing experiences
- 1999 – 2001 **Physiology 720 - Medical Physiology** (5 credits)
 Gastrointestinal physiology and laboratory, 8 lectures
- 1998 - 2004 **Physiology 335 - Human Physiology**
 All areas of human physiology, 20 lectures
- 1996 **Anatomy 437 Human Gross Anatomy** (3 credits)
 Human anatomy and laboratory, 6 lectures
- Mentoring**
- 2014-present **HMI BioScholars Postdoc Program**
 Mentee: Jessica TeSlaa
 Project: Development, Implementation and Evaluation of a Service in
 Science Course for First-Year Students
- 2014-2015 **WISCIENCE Undergraduate Research Postdoc**
 Mentee: Kyriaki
 Project: Development, Implementation and Assessment of a Service in
 Science Course for First-Year Students
- 2014-2015 **HMI BioScholars Postdoc Program**
 Mentee: Jerry Whitmore, Jr.
 Project: Development, Implementation and Evaluation of a Peer
 Leadership Program in Biology
- 2014 – 2015 **UW-Madison Delta Program in Research, Teaching and Learning**

Mentee: Alexandra Chesney, Graduate Student in Molecular and Environmental Toxicology
Project: Development, Implementation and Evaluation of Workshop Series to get Undergraduate Students Engaged in Research

2013- 2015

HMI BioScholars Postdoc Program

Mentee: Tawnya Cary
Project: Assessing How Students Understand Conceptual Themes in Biology

2013- 2016

HMI BioScholars Postdoc Program

Mentee: Caroline Jakuba
Project: Documenting the Student Experience in Exploring Biology

2007 – 2009

UW-Madison Delta Program in Research, Teaching and Learning

Mentee: Jennifer Arens-Gubbels, Graduate Student in Endocrinology and Reproductive Physiology
Project: Development, Implementation and Evaluation of a Wiki Online Learning Community in Biology 261, Entering Research
Current Position: Assistant Professor of Biology, Augustana College

2007

Wisconsin Program for Scientific Teaching

Mentee: Lori Adams-Phillips, Post-doctoral Fellow in Plant Pathology
Project: Development of Integrated Case for Biology 152, Introductory Biology
Current Position: Adjunct Assistant Professor, Biology Honors Program Director, University of Iowa

2005

Wisconsin Program for Scientific Teaching

Project: Development of “Evo-Devo” Research Theme in Biology 150, Ways of Knowing Biology
Mentee: Brad Hersh, Post-doctoral Fellow in Genetics
Current Position: Assistant Professor of Biology and Biochemistry, Allegheny College

Group Project 1: Development of “The Biology of Learning” Research Theme in Biology 150, Ways of Knowing Biology

Mentee 1: Alex Kendrick, Graduate Student in Entomology
Current Position: Professional Web Designer

Mentee 2: Barb Linkhart, Graduate Student in Cellular & Molecular Biology
Current Position: Teacher at the St. Scholastic Academy in Chicago

Mentee 3: Beth Thompson, Graduate Student in Cellular and Molecular Biology
Current Position: Assistant Professor of Biology, East Carolina University

Group Project 2: Development of “Genetically Modified Organisms”
Research Theme in Biology 150, Ways of Knowing Biology

Mentee 1: Elyse Lee, Graduate Student in Molecular and Environmental Toxicology
Current Position: Post-doctoral Fellow at the National Institute of Environmental Health Science (NIEHS)

Mentee 2: Monica Norby, Graduate Student in Plant Breeding and Genetics
Current Position: Research Scientist at Agro Tech Research Farm

Mentee 3: Crystal Stewart, Graduate Student in Horticulture
Current Position: Extension Specialist at Cornell University

Service

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| 2019 | Grant Review Panelist, NSF Improving Undergraduate Science Education |
| 2015 - 2016 | National Research Council Committee on Strengthening Undergraduate Research Experience in STEM |
| 2014 – present | Member, Kinesiology Department Undergraduate Studies Committee |
| 2014 – present | Program Specialist, Institute for Broadening Participation in STEM |
| 2013, 2014 | Grant Review Panelist, NSF Biological Sciences Postdoctoral Fellowships |
| 2012 – 2015 | Chairperson, National Leadership Council, NSF Research Experience for Undergraduates (REU) |
| 2011 - present | Advisory Committee, UW-Madison Center for the First Year Experience |
| 2011 | UW-Madison Search Committee, Dean of the Graduate School and Vice Chancellor for Research |
| 2009 | UW-Madison Committee, Institute for Cross-college, Biology Education Introductory Biology Exploratory Working Group |
| 2009 – present | National Leadership Council, NSF Research Experience for Undergraduates (REU), Assessment Committee Co-Chair |
| 2008 | Grant Review Panelist, NSF Undergraduate Research and Mentoring in the Biological Sciences |
| 2007, 2011 | Grant Review Panelist, NSF Research Experiences for Undergraduates Site |
| 2004 – present | UW-Madison Working Group Member and UW- Madison Representative to the Wisconsin Alliance for Minority Participation (WiscAMP) |

- 2002 – present UW-Madison Chancellor's Scholarship Program Mentor
- 2001 – present UW-Madison Committee, Summer Research Opportunities Program
- 2001 – present UW-Madison Committee, College of Agriculture and Life Sciences Honors in Research

Program/Project Development and Leadership Experience

- 2018 – 2023 **From Access to Success: Supporting 2- to 4-year Transfer Students**
Role: **PI** (HHMI Inclusive Excellence)

Program Goal: Build a comprehensive 2- to 4-year transfer model program and implement policy changes to transform the way Wisconsin public institutions support STEM transfer students.

- 2016 – 2017 **Workshop for NSF Biology Research Experiences for Undergraduates Programs Principal Investigators**
Role: **PI** (NSF DBI - 1649418) and Workshop Leader

Workshop Goal: Bring a select group of principal investigators together from across all NSF directorates that offer Research Experiences for Undergraduates site programs to share best practices to enhance and strengthen the REU experience through culturally responsive mentoring and program evaluation.

- 2015 – 2016 **Workshop for NSF Biology Research Experiences for Undergraduates Programs Principal Investigators**
Role: **PI** (NSF DBI - 1617287) and Workshop Leader

Workshop Goal: Bring a select group of principal investigators together from across all NSF directorates that offer Research Experiences for Undergraduates site programs to share best practices, identify existing activities within disciplines that could be expanded to serve all disciplines, and develop action plans for new cross-disciplinary initiatives.

- 2015 – 2017 **EAGER – Research Experiences for Undergraduates Common Assessment Tool**
Role: **PI** (NSF DBI-1551586)

Project Goal: Develop a new platform for the Biology Research Experiences for Undergraduates (REU) Common Assessment Tool that will allow collection, aggregation and analysis of data across programs within Biology, and be available for REU program use beyond biology in the future.

- 2014 – 2019 **NIH National Research Mentoring Network**
Role: **Co-I** (NIH U54RM13017) and **Associate Director of Mentor Training Core**

Project Goal: Create a national network to support training, professional development and matching for mentors and mentees to increase the diversity of the biomedical research workforce (<http://nrmnet.net>).

2013 – 2014 **Workshop for NSF Biology Research Experiences for Undergraduates Programs Principal Investigators**

Role: **PI** (NSF DBI - 1348417) and Workshop Leader

Workshop Goal: This workshop takes place every other year and brings the Principal Investigators of the NSF Biology Research Experiences for Undergraduates programs from across the nation together for professional development workshops, sharing of best practices and planning for program-wide initiatives.

2012 – 2013 **Collaborative Research – Development of a Common Tracking Tool and Assessment of Long-Term Outcomes for Biology REU Programs**

Role: **PI** (NSF DBI-1249288)

Project Goal: Develop a common tracking tool to assess the impact of a Biology REU experience on students' long-term career and professional goals and outcomes. (<http://bioreu.org/node/29>)

2011 - 2014 **Foundations for Success in Undergraduate Biology**

Role: **PI** and **Program Director** (HHMI Institutional Science Education)

Program Goal: Develop courses and programs to welcome and support first-year biology students, especially those who are first-generation college students or members of underrepresented ethnic groups, to transition and succeed at the UW-Madison.

2011 - 2012 **Biology Scholars Assessment Institute**

Role: **Institute Leader** and **Steering Committee Member**

Project Goal: Develop and offer a four-day Institute and subsequent year-long residency program to train biologists in creating meaningful and reliable strategies to measure student learning. (<http://www.biology scholars.org/Assessment-Institute.shtml>)

2010 – 2012 **Collaborative Research - Evaluation of Biology Research Experiences for Undergraduates (REU) Site Programs**

Role: **PI** (NSF DBI-1052724)

Project Goal: Develop a common assessment tool for all NSF funded REU site programs in the biological sciences. (<http://bioreu.org/node/29>)

2010 – 2013 **Research to Understand and Inform Interventions that Promote the Research Careers of Students in Biomedical and Behavioral Sciences**

Role: **Senior Personnel** (NIH 1R01GM094573-01)

Project Goal: Develop a better understanding of specific factors in mentoring that account for positive student outcomes. Students in the URM and IBS-SRP undergraduate research programs and their mentors provide the main source of data for this study. (<http://www.nigms.nih.gov/Research/FeaturedPrograms/Minority/Interventions.htm>)

2007 – 2013 **Undergraduate Research and Mentoring (URM) Program**
Role: **PI and Program Director** (NSF DBI-0731564)

Program Goal: Prepare a more diverse group of students for graduate education. URM is a 3-year graduate school preparatory program that serves UW-Madison students. (<http://cbe.wisc.edu/urm/index.html>)

2007 – 2010 **Research Mentor Training Adaptation for STEM Disciplines**
Role: **Co-PI** (NSF DUE-0717731)

Project Goal: Adapt the original biological sciences focused *Entering Mentoring* training curricular materials for use across the STEM disciplines. (<http://www.researchmentortraining.org/>)

2001 – 2016 **Integrated Biological Sciences Summer Research Program (IBS-SRP)**
Role: **PI and Program Director** (NSF DBI-1063085)

Program Goal: Prepare a diverse group of students for graduate education. IBS-SRP is a 10-week graduate school preparatory program that serves 40-50 rising juniors and seniors from across the country each summer. Research opportunities in several biological science sub-disciplines (e.g. Virology, Neurobiology, Ecology) are offered and are intellectually connected through the five overarching biological concepts outlined in the 2011 AAAS Vision and Change report: 1) evolution, 2) pathways and transformations of energy and matter, 3) information flow, exchange and storage, 3) structure and function, 4) systems. (<http://cbe.wisc.edu/srp-bio/index.html>)

Professional Affiliations and Professional Development Activities

- 2014 BeAware: The Research Behind Leadership and Management – 12 week course
- 2011 Fully Prepared to Lead: A Comprehensive, Competency-Based Leadership Development Program – Courses completed:
- Professional Development Planning for Leaders
 - Leadership Awareness
 - Building and Managing Work Relationships
- 2011 – present Reviewer, *BioScience*, The American Institute of Biological Sciences
- 2010 – present Founding Member, Society for the Advancement of Biology Education Research (SABER)
- 2007 – present Reviewer, *CBE Life Sciences Education*, The American Society for Cell Biology

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| 2006 | Participant, National Academies Summer Institute on Undergraduate Biology Education |
| 2002 – present | Member, Council on Undergraduate Research |
| 1999 – 2002 | Participant, Creating a Collaborative Learning Environment Faculty Development Program |
| 1998 – present | Member, American Physiological Society |
| 1994 – 1995 | Co-Founder, UW-Madison Medical School Graduate Student Society |
| 1993 – 95 | Treasurer, UW-Madison Graduate Women in Science (beta chapter) |

Grants and Funding Awards

In Preparation

NSF IUSE **Branchaw, PI** & Cary, Co-PI
 \$600,000, Engaged Student Learning Development and Implementation Level 1 -
 Development, Validation and Pilot Testing of Biology Core Concept Assessment Instruments

Pending

Current

UW-Madison 2018 Fall Competition – **Branchaw, PI** 01/01/19 – 12/31/19
 \$79,376, Biology Core Concept Assessment Instrument Development and Validation

HHMI - **Branchaw, PI** 07/01/18 – 06/30/23
 \$1,000,000, HHMI – Inclusive Excellence: Beyond Access to Success: Creating Flexible
 Pathways to STEM Degrees for Transfer Students in the University of Wisconsin System

NSF DBI-1730756 07/01/17 – 06/30/21
 O'Connell, PI, Berkowicz, Billick, Bowser & **Branchaw, Co-PIs**
 \$499,620, RCN-UBE: Building Capacity for Undergraduate Field Experiences

NSF DBI-1659159 **Branchaw, PI** & Wassarman, Co-PI 03/01/17 – 02/29/20
 \$348,454, NSF – REU Site: SIGNALS Summer Research Program

Completed

NSF EFMA -1551283 Greenberg, PI & **Branchaw, Co-PI** 11/01/15 – 10/31/18
 \$162,417, NSF - Collaborative Research: EFRI-REM: Mentoring Catalyst Initiative

NIH U54RM13017 Burgess, Pfund, Vishwanatha, Okeyemi (Co-PIs) 09/01/14 – 08/31/19
 \$11,017,036 **Branchaw (Co-I)**
 National Research Mentoring Network for a Diverse Biomedical Workforce

NIH 1R25NS083065-01 Jackson, PI, **Branchaw, Co-I**, Johnson Co-I, Wassarman, Co-I
05/01/11 – 04/30/18
\$317,585, NIH – Summer Research Experience for Minority Undergraduates
Neuroscience Summer Research Program (sub-group of IBS-SRP)

NIH 1R01GM094573-01 Byars-Winston, PI, Pfund, PI
09/01/14–08/31/18
Branchaw, Key Personnel
\$1,488,840, NIH – R01 What Matters in Mentoring?

NSF DBI-1649418 **Branchaw, PI** 09/01/16 – 08/31/17
\$50,000, NSF 2017 Biology REU Principle Investigator Workshop: Enhancing and
Strengthening the REU Experience Through Culturally Responsive Mentoring and Program
Evaluation

NSF DBI-1617287 **Branchaw, PI** 01/20/16 – 01/19/17
\$77,371, NSF - 2016 PAN REU Principle Investigator Workshop: Leveraging Excellence
Through Collaboration Across REU Programs

NSF DBI-1063085 **Branchaw, PI & Wassarman, Co-PI** 02/23/11 – 02/21/17
\$591,824, NSF – Research Experiences for Undergraduates (REU) Site
Integrated Biological Sciences Summer Research Program (IBS-SRP)

NSF DBI-1551586 **Branchaw, PI** 08/04/15 – 08/03/16
\$100,000, NSF - EAGER: Research Experiences for Undergraduates Common Assessment
Tool

NIH 1R25ES020720-01 Bradfield, PI & **Branchaw, Co-I** 05/01/11 – 04/30/16
\$304,206, NIH – Summer Research Experience for Minority Undergraduates
Molecular and Environmental Toxicology Summer Research Program

NSF OCE-1545651 Hannigan, PI & **Branchaw, Co-PI**
\$99,999, NSF – Student and Mentor Travel Scholarship Program 08/15/15 – 08/14/16

HHMI - **Branchaw, PI** 09/01/10 – 12/31/15
\$1,400,000, HHMI – Institutional Undergraduate Science Education
Foundations for Success in Undergraduate Biology Education

NIH 1P20MD008696-01 **Branchaw**, Pfund and Sorkness (Co-PIs) 09/25/13 - 03/31/14
\$195,650, National Research Mentoring Network (NRMN) planning grant
Strengthening Mentorship for a Diversified Biomedical Research Workforce

NSF DBI - 1348417 **Branchaw, PI** 08/15/13 – 08/14/14
\$49,999, NSF- Workshop Proposal
2014 Biology REU Workshop: Using Evidence-Based Approaches to Enhance and Strengthen
the REU Experience, April 10-12, 2014

NSF DBI-1249288 **Branchaw, PI** 09/01/12 - 08/31/14
\$26,203, NSF- Collaborative Research
Development of a Common Tracking Tool and Assessment of Long-Term Outcomes for
Biology REU Programs

NIH 1R01GM094573-01 Byars-Winston, PI, Pfund, Co-I 07/01/10–06/30/13

Branchaw, Key Personnel

\$600,000, NIH – R01 Research to Understand and Inform Interventions that Promote the Research Careers of Students in Biomedical and Behavioral Sciences

What Matters in Mentoring? Testing and Measuring a Mentor Training Intervention

NSF DBI-0731564 **Branchaw, PI** & Pfund, Co-PI 09/01/07 - 08/31/12

\$998,452, NSF – Undergraduate Research and Mentoring in the Biological Sciences (URMBS)

Interdisciplinary Undergraduate Research & Mentoring (URM) Program

NSF DBI-1229859 03/01/12 – 02/30/13

Christian, PI, **Branchaw, Co-PI** & Hannigan, Co-PI

\$68,711, Workshop Proposal

2012 Biology REU Workshop: Enhancing and Strengthening the REU Experience

NSF DBI-1052724 **Branchaw, PI** 09/01/10 - 08/31/12

\$29,383, NSF- Collaborative Research

Evaluation of Biology Research Experiences for Undergraduates (REU) Site Programs

NSF DBI-0552806 **Branchaw, PI** & Baum, Co-PI 03/01/06 - 02/28/11

\$439,897, NSF- Research Experiences for Undergraduates (REU)

Integrated Biological Sciences Summer Research Program (IBS-SRP)

NSF DUE-0717731 Pfund, PI, **Branchaw Co-PI** & Mathieu, Co-PI 09/01/07 – 08/31/10

\$375,000, NSF – Course Curriculum and Laboratory Improvement (CCLI), Type 2

Improving Undergraduate Research Experiences in STEM through Mentor Training

Genentech Foundation Minority Research Scholarships, **Branchaw, PI**

\$34,000 2015

\$16,000 2013

\$15,000 2012

\$15,000 2011

\$14,000 2010

\$13,000 2009

\$12,000 2008

Federation of American Societies for Experimental Biology Minority Access to Research Careers (FASEB-MARC) Summer Research Travel and Subsistence Awards, **Branchaw, PI**

\$4,670 2011

\$1,859 2010

\$1,894 2009

\$3,577 2008

\$3,980 2007

\$8,444 2006

\$9,077 2005

\$4311 2004

\$4,432 2003

NSF DBI-0431084 **Branchaw, PI** 03/26/04 – 03/25/05

\$6,000, NSF – Research Experiences for Undergraduates (REU) Site Program – Supplement

Summer Research Program in Cellular and Molecular Biology

NSF DBI-0097432 **Branchaw, PI** & Susman, Co-PI 06/01/01–05/31/06
\$283,283, NSF – Research Experiences for Undergraduates (REU) Site Program
Summer Research Program in Cellular and Molecular Biology

Invited Workshops & Presentations

- 2018 Presenter: Mentoring Up for Trainees and Mentoring Diverse Trainees for Faculty, Cancer Biology Training Consortium (CABTRAC) Annual Retreat
- 2018 Workshop: Research Mentor Training, Long-Term Ecological Research All Scientists Meeting
- 2018 Keynote Address: Evidence-Based Practices in STEM Undergraduate Research: What We Know and What We Have Yet to Learn. Texas State University Undergraduate Research Symposium: *Innovative and Collaborative Undergraduate Research*
- 2018 Presenter (Long Talk): It Takes a Village: Beyond Training Mentors to Empowering Research Trainees, Society for Advancement of Biology Education Research (SABER) Conference
- 2018 Workshop: Entering Research: A Curriculum to Support Undergraduate Research Trainees, Council on Undergraduate Research Biennial Conference
- 2018 Presenter: Entering Research: A Research Trainee Curricular Interventions to Broaden Participation in STEMM, Understanding Interventions Conference
- 2017, 18 Workshop: Entering Research Train the Trainer Workshop, National Research Mentoring Network
- 2017 Workshop: Research Mentor Training for NSF S-STEM Mentors Longwood University
- 2017 Presenter: Introducing the UI Journal at the Understanding Interventions Conference; Chubin, D., DePass, A., Nelson, C., Branchaw, J. L., and Matsui, J.
- 2015 Presenter and Workshop Facilitator: Research Mentor and Mentee Training, Xavier University of Louisiana
- 2013 Workshop: Annual Biomedical Research Conference for Minority Students (ABRCMS), Research Mentor Training: Train the Trainer Workshop
- 2013 Workshop: Research Mentee Training, Medical Scientist Training Program (MD/PhD), UW-Madison
- 2012 Workshop: Research Mentor Training for Clinical and Translational Scientists, Georgetown University

- 2012 Workshop: Research Mentor and Mentee Training: Mentoring in an Interdisciplinary Context, Gulf Coast Consortia for Quantitative Biomedical Sciences, Houston, TX
- 2011 Presenter: Welcoming Students to UW-Madison's Life Sciences Community and Preparing them for Success, First-Year Conference at UW-Madison
- 2011 Presenter and Panelist: Effective Mentoring Strategies for Undergraduate Researchers, NSF Undergraduate Research and Mentoring Principal Investigator's Meeting
- 2011 Workshop: Research Mentor Training for Undergraduate Research and Mentoring (URM) Program Faculty Mentors, Alabama A&M University
- 2010, 2012 Presenter: Health Equity Leadership Institute, "Getting the Most From Your Research Mentor-Mentee Relationships," UW-Madison Institute for Clinical and Translational Research Center for Health Equity
- 2008 – 2011 Short Course, "Getting the Most From Your Research Mentor-Mentee Relationships," UW-Madison Institute for Clinical and Translational Research
- 2008 – 2009 Workshop: Research Mentor and Mentee Training for HHMI Mentors and Students, University of Texas - El Paso
- 2008 Presenter: Research Mentor Training, UW-Madison Teaching and Learning Symposium
- 2008 Presenter: "What to Expect from a Research Mentor," UW-Madison Center for Women's Health
- 2008 Workshop: Research Mentor Training, UW-Madison Graduate Engineering Research Scholars Program
- 2007 – 2009 Presentation: Research Mentor Training Presentation, National Academies Summer Institutes
- 2007, 11, 12 Presentation: Research Mentee Training, Wisconsin Alliance for Minority Participation (WiscAMP) Annual Meeting
- 2006 – 2009 Workshop: Research Mentor Training for HHMI Program Mentors, Arizona State University

Publications

Books and Book Chapters

Branchaw, J. L., Butz, A. R., and Smith, A. R. (in press) *Entering Research: A Curriculum to Support Undergraduate and Graduate Research Trainees*, 2nd ed., Macmillan.

National Academies of Sciences, Engineering, and Medicine. (2017) *Undergraduate Research Experiences for STEM Students: Successes, Challenges, and Opportunities*. Washington, DC: The National Academies Press. doi:<https://doi.org/10.17226/24622>

Lee, S., McGee, R., Pfund, C., and **Branchaw, J. L.** (2015) "Mentoring Up"- Learning to manage your mentoring relationships. Book chapter in *The Mentoring Continuum: From Graduate School Through Tenure*, ed. Glenn Wright, Syracuse, NY: The Graduate School Press.

Pfund, C., **Branchaw, J. L.**, and Handelsman, J. (2015) *Entering Mentoring: A Seminar to Train a New Generation of Scientists*, 2nd ed., Macmillan.

McGee, R., Lee, S., Pfund, C., and **Branchaw, J. L.** (2015) *Advancing Postdoc Women Guidebook: Beyond "Finding Good Mentors" to "Building and Cultivating your Mentoring Team,"* ed. Belinda Lee Huang, Washington, D.C., National Postdoctoral Association. (http://www.npacommunity.org/?page=beyond_mentoring)

Pfund C., Brace C., **Branchaw J. L.**, Handelsman J., Masters K., Nanney L. Mentor Training for Biomedical Researchers. (2013) Pfund C. and Handelsman J., eds. Entering Mentoring Series. Advance online publication. <https://mentoringresources.ictr.wisc.edu/TrainingCurriculumChoices>

Branchaw, J. L., Pfund, C., and Rediske, R. (2010) *Entering Research Facilitator's Manual: Workshops for Students Beginning Research in Science*, Freeman & Company.

Peer Reviewed Articles

Branchaw, J. L., Theisen, C.H., and Trimby C. (in press) Leveraging a Graduate Student Teaching Fellows Program to Enhance Undergraduate Education in *New Directions in Teaching and Learning: Approaches to Graduate Student Development and Preparation*

Branchaw, J.L., Butz, A.R., and Smith, A.R. (in prep) *Entering Research: A Framework for Research Trainee Development and Customizable Undergraduate and Graduate Training Curriculum. Life Sciences Education.*

Butz, A. R. and **Branchaw, J. L.** (in prep). *Entering Research Learning Assessment (ERLA): A Validated Instrument to Measure Research Trainee Development. Life Sciences Education.*

Cary, T., Wienhold, C. J., and Branchaw, J. L. (in review) A Biology Core Concept Instrument (BCCI) to assess student conceptual understanding. *Life Sciences Education*

Trimby, C., Wienhold, C. J., and **Branchaw, J. L.** (in press). BioMap Degree Plan. *CourseSource*

Byars-Winston, A. M., Leverett, P., Owen, A., Pfund, C., **Branchaw, J. L.**, and Benbow, R. (in press) Mentee and Mentor Perspectives on Race/Ethnicity and Gender in Biology Research Mentoring Relationships. *Journal of Diversity in Higher Education.*

Trimby, C., Wienhold, C.J., and **Branchaw, J.L.** (2018) Discovery Poster Project. *CourseSource*. <https://doi.org/10.24918/cs.2018.10> [54]

- Butz, A. R., Byars-Winston, A. M., Leverett, P., **Branchaw, J. L.**, and Pfund, C. (2018). Increasing mentors' ability to promote STEM trainee research self-efficacy. *Understanding Interventions* vol 9 (1)
- Wienhold, C. and **Branchaw, J. L.** (2018) Exploring Biology: A *Vision and Change* Disciplinary First-Year Seminar Improves Academic Performance in Introductory Biology. *Life Sciences Education* vol. 17(2), DOI: 10.1187/cbe.17-08-0158
- Cary, T. and **Branchaw, J. L.** (2017) Conceptual Elements: A Detailed Framework to Support and Assess Student Learning of Biology Core Concepts. *Life Sciences Education* vol. 16(2), DOI: 10.1187/cbe.16-10-0300
- Byars-Winston, A., Rogers, J., **Branchaw, J. L.**, Pribbenow, C., Hanke, R., and Pfund, P. (2016) New Measures Assessing Predictors of Academic Persistence for Historically Underrepresented Racial/Ethnic Undergraduates in Science. *CBE Life Sciences Education* 15(32):1-11.
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