Curriculum Vitae
Brian Ballard Gibbens, PhD
Teaching Assisstant Professor

Education

Degree	*Institution and Area or Department*	*Date Degree Granted*
Ph.D.	University of Minnesota Molecular, Cellular, Developmental Biology & Genetics [Advisor: Dr. Laura Ranum]	2011
B.S./B.A.	University of Minnesota Genetics, Cell Biology & Development	2005
A.A.	Anoka Ramsey Community College General Education Degree	2000

Positions/Employment

University of Minnesota, Twin Cities
Teaching Assistant Professor 2012 – present

Inver Hills Community College
Adjunct Faculty 2011

St. Olaf College
Adjunct Faculty 2011

North Hennepin Community College
Adjunct Faculty 2009

Postdoctoral appointments
HHMI Teaching Fellow 2011 – 2012

Current Membership in Professional Organizations

Society for the Advancement of Biology Education Research (SABER)

HONORS AND AWARDS FOR RESEARCH/CREATIVE WORK, TEACHING, PUBLIC ENGAGEMENT, AND SERVICE

UNIVERSITY OF MINNESOTA

Most Passionate Professor (Lower Division), The Third Annual Golden Pipette Awards, 2015-2016
Most Creative Teaching Style Award, The Second Annual Golden Pipette Awards, 2014-2015
National Academies Education Mentor in the Life Sciences, National Academies Northstar Institute, University of Minnesota, 2012
National Academies Education Fellow in the Life Sciences, National Academies Northstar Institute, University of Minnesota, 2011
Outstanding Performance as a Teaching Assistant Award, College of Biological Sciences, University of Minnesota, 2009
Muscle Center Training Grant, 2008 & 2009

RESEARCH, SCHOLARLY, AND CREATIVE WORK

GRANTS AND CONTRACTS

University Sources

CBS Digital Biology Initiative Internal Grant, 2013-2014
From: University of Minnesota
Amount: $25,000
Role: Principal Investigator

RESEARCH PUBLICATIONS

Refereed Research Publications

1. **Gibbens, B. B.**, Scott, C. L., Hoff, C. D. & Schottel, J. L. Exploring Metagenomics in the Laboratory of an Introductory Biology Course. *J. Microbiol. Biol. Educ.* **16,** 34–40 (2015).
http://www.ncbi.nlm.nih.gov/pmc/articles/PMC4416502/
Role: Co-Principal Investigator, lead author

2. **Gibbens, B. B**., Williams, M. A., Strain, A. K., & Hoff, C. D. M. Comparison of Biology Student Performance in Quarter and Semester Systems. *Coll. Univ.* **90,** 12–26 (2015).
Role: Principal Investigator, lead author

3. Zu, T., **Gibbens, B. B.**, *et al.* Non-ATG-initiated translation directed by microsatellite expansions. *PNAS* **108,** 260–265 (2011).
http://www.pnas.org/content/108/1/260
Role: 2nd author, major contributor

RESEARCH PRESENTATIONS

Research Presentations at Professional Meetings or Conferences

1. Brian Gibbens and Cheryl Scott, *Exploring Metagenomics in the Laboratory of an Introductory Biology Course*, Society for the Advancement of Biology Education Research (SABER) National Meeting, 2015, University of Minnesota Twin-Cities, MN

2. Brian Gibbens, Mary Williams, and Anna Strain, *Biology Student Performance in Quarter and Semester Systems*, Biology Leadership Conference, 2014, Amelia Island Plantation Resort, FL

3. Brian Gibbens, Mary Williams, and Anna Strain, *Biology Student Performance in Quarter and Semester Systems*, SABER, 2013, University of Minnesota Twin Cities, MN

TEACHING PUBLICATIONS

Refereed Teaching Publications

1. **Gibbens, B. B.**, Gettle, N., Thompson, S. & Muller, K. Using Gamification to Teach Undergraduate Students about Scientific Writing. *CourseSource* **2,** 1–9 (2015).
http://coursesource.org/courses/using-gamification-to-teach-undergraduate-students-about-scientific-writing
Role: Principal Investigator, lead author, software developer

2. **Gibbens, B. B.**, Bad Cell Reception? Using a cell part activity to help students appreciate cell biology, with an improved data plan and no loss in coverage. *CourseSource* **01,** 1–10 (2014).
http://coursesource.org/courses/bad-cell-reception-using-a-cell-part-activity-to-help-students-appreciate-cell-biology-with
Role: Principal Investigator, lead author

Non-refereed Teaching Publications (journal articles, essays, book chapters)

1. BIOL1009 Laboratory Manual (Authored/tested four metagenomics labs)

TEACHING PRESENTATIONS

Teaching Presentations at Professional Meetings or Conferences

1. Brian Gibbens, *Meauring Changes in Biology Student Motivation Using the IMI and MSLQ,* Society for the Advancement of Biology Education Research (SABER) National Meeting, 2016, University of Minnesota Twin-Cities, MN

2. Brian Gibbens, *Play-on-Words: The Biology Writing Game*, Society for the Advancement of Biology Education Research (SABER) National Meeting, 2015, University of Minnesota Twin-Cities, MN

3. Brian Gibbens, *A Simple, Engaging, and Effective Activity for Teaching Students About Cell Parts*, American Society of Microbiology Conference for Undergraduate Educators (ASMCUE), 2014, Danvers, MA

4. Brian Gibbens, *How to give an Astonishingly Good Presentation*, Biology Program Faculty Meeting, 2013, University of Minnesota Twin Cities, MN

5. Brian Gibbens, *Thinking like a Scientist*, POGIL SC Regional Workshop: Foundations of Biology, 2013, Washington University – Danforth Campus, St. Louis, MO

6. Brian Gibbens, *The NANSI Lexicon*, National Academies Northstar Summer Institute (NANSI), 2013, University of Minnesota Twin Cities, MN

7. Brian Gibbens, *Bringing Authentic Research into the Classroom: The Metagenomics Model*, AAC&U Next Generation STEM Learning: Investigate, Innovate, Inspire Conference, 2012, Kansas City, MO

8. Brian Gibbens, *Teaching with Metagenomics*, STEM Colloquium, 2012, University of Minnesota Twin Cities, MN

9. Brian Gibbens, *Teaching with Metagenomics*, Math and Science Teaching Partnership Celebration, 2012, District 287, Plymouth, MN

10. Brian Gibbens, Bringing Bioinformatics into the Classroom, Conversations of Teaching and Learning, 2012, University of Minnesota Twin Cities, MN

TEACHING AND CURRICULUM DEVELOPMENT

UNIVERSITY OF MINNESOTA

Courses, Seminars, and Instructional Units Taught

University of Minnesota

BIOL2002 Foundations of Biology 1: Evolution and Genetics
Term (#students): S2017(169), F2016(135), S2016(312), F2015(130), S2015(170), S2014(169), F2013(143), S2013(123), F2012(68)

BIOL2003 Foundations of Biology 2: Ecology and Biochemistry
Term (#students): S2017(44), F2016(119), F2015(95), F2014(224), S2014(90), F2013(141), S2013(76)

BIOL1905 Freshman Seminar: Biology at the Movies, Sci-Fi vs. Sci-Fact
Term (#students): S2017(17)

BIOL1805 Nature of Life: Critical and Creative Thinking in Biology
Term (#students): Su2014(~40)

BIOL1905 Freshman Seminar: How to Win a Nobel Prize
Term (#students): F2013(18)

BIOL5910 Metagenomics Teaching Workshop
Term (#students): Su2012(12), Su2013(15)

Inver Hills Community College
BIOL2205 Microbiology (Lecture & Lab)
Term (#students): F2011(31)

North Hennepin Community College
BIOL365 Developmental Biology (Lecture & Lab)
Term (#students): F2009(9)

St. Olaf College
BIOL125 Intro to Cell Biology and Genetics (Lecture & Lab)
Term (#students): Interim(~55)

Faculty Development Activities Regarding Teaching

Directors of Multiple Instructor Courses Faculty Learning Community, 2017
Tools for Evidence Based Action (TEA) Meeting at U.C. Davis, 2016
BTL Retreat-Defining and Evaluating Performance, 2016
CITI Human Subject Research Training, 2015
CITI Social/Behavioral or Humanist Research Investigators Training, 2015
TWW Working with Collaborative Projects, 2015
Early Career Teaching Program, 2014
Diversity in the Curriculum: Transforming Your Syllabus, 2014
Teaching with Writing in Large Introductory-Level Courses, 2014
Teaching Critical Thinking, University of Minnesota, 2013
Sticky Syllabus: Creating Course Guides to Motivate Your Students, University of Minnesota, 2013
Distracting: Strategies for Managing Difficult Classroom Behaviors, University of Minnesota, 2013
Beyond “Add and Stir”: Engaging Diversity in College Classrooms, University of Minnesota, 2012
Teaching Critical Thinking, University of Minnesota, 2012
Writing Instruction in Five Minute Increments, University of Minnesota, 2012

Preparing a Scientific Presentation, University of Minnesota, 2012
Your Best Talk Ever: How to Become a Science Presentation Superstar, University of Minnesota, 2012
Grading Student Writing, University of Minnesota, 2012
Designing to Support Learning, 2011
Using Classroom Assessment Techniques to Inform Teaching, University of Minnesota, 2011
Learning in Groups, University of Minnesota, 2011

SERVICE AND PUBLIC OUTREACH

SERVICE TO THE DISCIPLINE/PROFESSION/INTERDISCIPLINARY AREA(S)

Journal Reviewer Experience

CourseSource Reviewer (2013-Present)
Editor: Robin Wright
Managing Editor: Jessamina Blum

Workshops/Seminars

CIS Writ 1201 Field Day- *Science Writing Workshop for Highschool Students*, 2017
UMN CBS American Indian Day Visit, *Introduction to Foundations of Biology*, 2016
UMN CBS Sneak Preview Events, *Learn Biology by Being a Biologist*, 2013, 2014, 2016

Committee memberships [indicate if the candidate served as chair]

Director of BIOL2002 & BIOL2003 Foundations of Biology classes
BTL Peer Observation of Teaching Committee (Chair)

Other

NSF Writing to Learn (WTL) Grant-My role is to help implement WTL in Foundations of Biology classes

PUBLIC AND OTHER SERVICE

Jurors for artistic/creative works

Minn Academy of Science Science Bowl, 2017
Science Fair Judge at Friends School of Minnesota, 2014

Other

Coffee and Conversation-Pathways for Career Success, 2016
Coffee and Conversation-Finding the Best Journal Articles, 2016