

R.C. Adikes

Rebecca Cressey Adikes, PhD

Assistant Professor

Siena College

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Personal: radikes.com Lab: adikeslab.com

Education

- PhD Department of Biology, Molecular Cellular and Developmental Biology Program, University North Carolina Chapel Hill, February 2017
- B.A. Mount Holyoke College, Major: Biochemistry GPA: 3.77, Magna cum laude, May 2011

Teaching Experience

Lecturer:

- General Biology II, Siena College, Spring 2022
- Cellular Biology, Siena College, Fall 2021
- Structural Biology and Spectroscopy, Stony Brook University, Spring 2020 and 2021
- Developmental Genetics, Stony Brook University, Spring 2020

Lab Instructor:

- Developmental Genetics, Stony Brook University, Spring 2019 and 2020
- Cell Biology, Department of Biology, Mount Holyoke College, Spring 2011

Guest Lecturer:

- Cell Biology, Stony Brook University, Fall 2019
- Molecular Cytoskeleton, University of North Carolina, Fall 2014

Teaching Assistant:

- Microscopy Teaching Assistant: Embryology: Concepts and Techniques in Modern Developmental Biology. Marine Biological Laboratory, Woods Hole M.A. 2019
- Course Assistant/Research Facilitator: Analytical and Quantitative Light Microscopy Course, Woods Hole, MA, May 2014, 2018, 2019
- Cell and Developmental Biology, University of North Carolina, Fall 2013, Spring 2015

Peer Led Undergraduate Mentor:

Genetics/Molecular Biology and Cell Biology, Mount Holyoke College, 2009-2011

Research Mentor:

Adikes Lab- Siena College

Terri McKnight	Fall 2021-Spring 2022	Junior Biology Major
Sana Shehzad	Fall 2021-Current	Sophomore Biology Major
Mishal Razi	Spring 2022 –Current	Sophomore Biology Major
Maria Fitian	Summer 2022	Sophomore Biology Major

Matus and Martin Labs- Stony Brook University, Fall 2018-Spring 2021

MD/PhD Students Mentored:

Nuri Kim	Spring 2018-Spring 2019	PhD Candidate Seliger Lab SBU
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PhD Students Mentored:

Sam Stettinisch	Summer 2020 – Current	Graduate Student MCB
Courtney Tello	Summer 2020 – Current	Graduate Student Genetics
Maryam Azimi	Fall 2019 – Fall 2020	Graduate Student Genetics
Qinyun Zhao	Fall 2019 – Current	Graduate Student Applied Math

Undergraduates Mentored:

Anya Fang	Fall 2019 – Fall 2021	Clinical Lab Sciences Major
Ononah Ahmed	Fall 2018 – Fall 2021	Postbaccalaureate Researcher Matus Lab
Terri McKnight	Summer 2021	Biology Major Siena College

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Slep Lab - University of North Carolina, Spring 2013 – Spring 2018

Undergraduates Mentored:

Zeyun(Angela) Xue	Fall 2016 - Spring 2018	Medical Student, UNC
Sofia Corella	Fall 2017 - Spring 2018	MSTP Student, Case Western
Claudia Szlek	Fall 2017 - Spring 2018	Biology Major, UNC
April Hamer	Fall 2013 - Spring 2017	Medical Analyst, Intouch Solutions
Brian Saway	Spring 2015 - Spring 2016	MD Virginia Tech, Resident, MUSC
Ashley Gwyn	Summer 2015-Summer 2016	PA Student, Wingate University
Tanner Fadero	Spring 2013-2015	PhD Candidate, UNC

Quintero Lab – Mount Holyoke College/Penn State Hershey, Summer 2009, 2010

Undergraduates Mentored:

Nellie Davis	Summer 2009	Entrepreneur, Nellie Rose Textile
Thoung Minh La	Summer 2010	Pfizer/Mass General Hospital

Research Experience

Cytoskeletal Dynamics of Cell Migration (2021-Present)

Assistant Professor, Department of Biology, Siena College

Molecular mechanisms of cell migration, proliferation and differentiation of mesodermal precursors during *C.elegans* and *D.rerio* development

Mechanisms of Cell Migration and Invasion (2018-2021)

Postdoctoral Associate/Postdoctoral Fellow Department of Biochemistry and Cell Biology, Stony Brook University

Advisors: Dr. Dave Matus, Dr. Ben Martin and Dr. Ryan Kerney

Molecular mechanisms of cell migration of mesodermal precursors during *C.elegans* and *D.rerio* development

Cellular mechanisms and role of algal (*Oophila amblystomatis*) migration and invasion in the spotted salamander (*Ambystoma maculatum*) embryo

Molecular Mechanisms of Cytoskeletal Form and Function (2012-2018)

Graduate Student, Department of Biology, University of North Carolina

Advisors: Dr. Kevin Slep and Dr. Ted Salmon

Development of a novel optogenetic system to study the effect of microtubule associated proteins on microtubule dynamics in a spatiotemporal manner

Investigating the role of the Drosophila XMAP215 family member, Mini spindles, at centrosomes and kinetochore microtubule plus ends during mitosis.

Microtubule Function and Cell Division (2011-2012)

Fulbright Researcher, Department of Cell and Developmental Biology, Center for Genomic Regulation, Barcelona, Spain

Advisors: Dr. Isabelle Vernos and Dr. Sylvain Meunier

Investigation of the role of motor proteins in acentrosomal aster assembly

The Molecular Basis of Fatigue and Heart Failure (2010-2011)

Research Assistant/Technician, Department of Kinesiology, University of Massachusetts, Amherst, MA

Advisor: Dr. Edward Debold

Determining the effects of a cardiomyopathy causing mutation in TnT, a subunit of the muscle regulatory protein troponin, on the regulation of actomyosin motility

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Biochemical and Biophysical Characterization of Myosin-XIX (2008-2010)

Research Assistant, HHMI Research Mentee Department of Cellular and Molecular Physiology, Penn State College of Medicine, Hershey, PA and Department of Physics, University of Massachusetts, Amherst, MA

Advisors: Dr. Omar Quintero, Dr. Christopher Yengo and Dr. Jennifer Ross

Purification and Biochemical analysis of the myosin-XIX motor domain

Publications

*designates undergraduate author ^designates directly mentored individual

Morabito, R. D., **Adikes, R. C.**, Matus, D. Q., Martin, B. L. (2021) [Cyclin-Dependent Kinase Sensor Transgenic Zebrafish Lines for Improved Cell Cycle State Visualization in Live Animals](#). *Zebrafish*. DOI: 10.1089/zeb.2021.0059.

Mondal, C., Gacha-Garay, M.J., **Adikes R.C.**, Larkin, K., Di Martino J, Chien C-C., Fraser, M., Eni-aganga, I., Agullo-Pascual, E., Ozbek,U., Naba, A., Gaitas, A., Fu, T-M., Upadhyayula, S., Betzig, E., Matus, D.Q., Martin, B.L., and Bravo-Cordero, J.J. (2021) [A proliferative-to-invasive switch is mediated by srGAP1 downregulation through the activation of TGFβ2 signaling](#). Sneak Peak - Under revision for Cell Reports.

Palmisano, N.J.[#], Azmi, M.A.^{^#}, Medwig-Kinney, T.N., Moore, F.E.Q.^{*^}, Rahman R.^{*}, Zhang, W, **Adikes, R.C.**[%], Matus, D.Q.[%]. (2021). [A laboratory module that explores RNA interference and codon optimization through fluorescence microscopy using *Caenorhabditis elegans*](#). bioRxiv

DOI: <https://doi.org/10.1101/2020.10.17.344069> accepted at CourseSource October 2021

[#]these authors contributed equally, [%]co-corresponding

Smith, J.J., Xiao, Y., Parsan, N., Martinez, M.A.Q., Moore, F.E.Q.^{*}, Palmisano, N.J., Kohrman, A.Q., Chandok Delos Reyes, M., **Adikes, R.C.**, Medwig-Kinney, T.N., Liu, S., Bracht, S.A.^{*}, Zhang, W., Wen, K., Krastsios, P., Matus, D.Q. (2021) [The SWI/SNF chromatin remodeling assemblies BAF and PBAF differentially regulate cell cycle exit and cellular invasion *in vivo*](#). bioRxiv under revision at eLife
doi: <https://doi.org/10.1101/2021.03.01.433447>

Adikes, R.C.[#], Kohrman, A.Q.[#], Martinez, M.A.Q.[#], Palmisano, N.J., Smith, J.J., Medwig-Kinney, T.N., Min M., Sallee, M.D., Ahmed, O.B.^{*^}, Kim, N.[^], Liu, S., Morabito, R.D., Weeks, N., Zhao, Q., Zhang, W., Feldman, J.L., Barkoulas, M., Pani, A.M., Spencer S.L., Martin, B.L., and Matus, D.Q. (2020). [Visualizing the metazoan proliferation-differentiation decision *in vivo*](#). eLife 9:e63265 DOI: 10.7554/eLife.63265

[#]these authors contributed equally

Bocanegra, J.L.[#], **Adikes, R.C.**[#], Quintero O.A. (2020) [Myosin XIX. Myosins - A Superfamily of Molecular Motors](#). Springer. [#]These authors contributed equally

Adikes, R.C., Hallett, R.A., Saway, B.F.^{*}, Kuhlman, B., Slep, K.C. (2018) [Control of cytoskeletal dynamics via light mediated microtubule actin crosslinking](#). JCB 217(2) 779-793.

DOI: 10.1083/jcb.201705190 Preprint on [BioRxiv](#) DOI: <https://doi.org/10.1101/142414>

Plevock, K.P.[#], Fox, J.C.[#], Byrnes, A.E.[#], **Adikes, R.C.**[#], Speed., S.K.^{*}, Haase, J., Freidman, B., Cook, D.M., Bloom, K., Rusan, N.M., Slep, K.C. (2018) [Stu2 uses a 15-nm parallel coiled coil for kinetochore localization and concomitant regulation of the mitotic spindle](#). MBoC. 29(3):285-294. DOI: 10.1091/mbc.E17-01-0057 [#]these authors contributed equally

Adikes, R.C.^{*}, Unrath W.C., Yengo, C.M., and Quintero, O.A. (2013) [Biochemical analysis of the myosin-XIX motor domain](#). Cytoskeleton 70(5), 281-9. DOI: 10.1002/cm.2111

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Quintero, O.A., DiVito, M.M., **Adikes, R.C.***, Kortan, M.B.*, Case, L.B.*, Lier, A.J.*, Panaretos, N.S.*, Slater S.Q.*, Rengarajan, M.*, Feliu M.*, Cheney R.E. (2009) [Human myo19 is a novel myosin that associates with mitochondria](#). *Current Biology* 19, 2008-2013. DOI: 10.1016/j.cub.2009.10.026

Service

Consulting & Collaboration

Siena College

- Advanced Imaging Center – consultation sessions on microscopy equipment and grant writing for imaging needs at Siena
- Nobel Hall Animal Facility – consultation on room architecture and set up for a zebrafish facility

Janelia Research Campus

- Betzig Lab – using advance imaging technologies (Lattice Light Sheet) to image zebrafish and *C. elegans* development

Stony Brook University

- Deng Lab – Applied Mathematics: image segmentation and analysis
- Rest Lab – Ecology and Evolution: confocal time lapse imaging of single celled marine eukaryotes
- Citovsky Lab – Cell Biology: Confocal imaging of BiFC in tobacco plants
- Neiman Lab – Cell Biology: Four color confocal imaging in mammalian cells
- iGEM Stony Brook experience for undergraduates – Guidance on imaging techniques and analysis

Traineeships

- Leading Edge New Faculty Fellow. Founded and organized by Dr. Kara Mckinley Sponsored by HHMI Janelia Research Campus. 2021-current
- Academics for Black Survival and Wellness. Organizers: Pearis L. Bellamy and Dr. Della V. Mosley. 2020
- SciPhD Training: Preparing scientists for professional careers. Instructors: Dr. Randall Ribaud and Larry Petcovic. 2020
- Junior Scientists Workshop on Biological Optical Microscopy. Janelia Research Campus, Ashburn, VA. Course Directors: Dr. Ilaria Testa, Dr. Kaspar Podgorski, Dr. Luke Lavis and Dr. Philipp Keller. 2019
- Grant Writers' Seminars and Workshops: NIH Grant Writing Workshop. Stony Brook University. 2019
- EMBO Practical Course: Light Sheet Microscopy. Max Plank Institute. Dresden, Germany. Course Directors: Dr. Pavel Tomancak, Dr. Jan Peychl, Dr. Emmanuel G. Reynaud. 2018
- Embryology: Concepts and Techniques in Modern Developmental Biology. Marine Biological Laboratory, Woods Hole M.A. Course Directors: Dr. Rich Schneider UCSF and Dr. David Sherwood Duke University. 2017
- NSF-Pan American Studies Institute training course on the function and regulation of the cytoskeleton. Rio de Janeiro, Brazil. Course Director: Dr. Margaret Titus, University of Minnesota. 2010

Invited Talks and Seminars

Adikes, R.C. (2022) *Matching Sample to System*. Light Sheet Fluorescence Microscopy Workshop. Marine Biological Laboratories, Woods Hole, MA

Adikes, R.C. (2021) *Membrane and cytoskeletal dynamics during muscle progenitor migration*. ASCB Cell Bio Annual Meeting subgroup on Cytoskeletal dynamics in health and disease. Virtual

Adikes, R.C. (2021) *Regulation of cell migration during development and disease*. Siena College Biology Department Seminar. Virtual

Adikes, R.C. (2020) *Visualizing the metazoan proliferation-differentiation decision in vivo*. Cell and Developmental Biology Virtual Meeting. Lab Roots and Imaris.

Adikes, R.C. (2020) *Visualizing the metazoan proliferation-differentiation decision in vivo*. TAGC. Virtual Meeting

Adikes, R.C. (2020) *Visualizing the metazoan proliferation-differentiation decision in C.elegans*. New York Area Worm Meeting. New York, NY.

Adikes, R.C. (2019) *Cell Migration and Invasion During Development*. Junior Scientists Workshop on Biological Optical Microscopy. Janelia Research Campus, Ashburn, VA.

Adikes, R.C. (2019) *Generating, implementing and analyzing ratiometric kinase-based biosensors in C. elegans*. International C. elegans Conference. Los Angeles, CA.

Adikes, R.C. (2019) *Cell cycle and cytoskeleton regulation of cell migration and differentiation of C. elegans sex myoblasts and zebrafish paraxial mesoderm*. North East Developmental Biology Meeting. Woods Hole, MA.

Adikes, R.C. (2017) *The TOG tales of the tail of XMAP215 family*. Triangle Cytoskeleton Meeting. Saxapahaw, NC.

Adikes, R.C. (2017) *Using blue light to change the dynamics of the cytoskeleton*. University of Richmond. Biology Department Seminar Series.

Adikes, R.C. (2017) *Illuminating the role of MT dynamics in space and time*. University of North Carolina. Biology Department Symposium.

Adikes, R.C. (2015) *Probing Msp polymerase activity during mitosis*. University of North Carolina Mitosis Club Meeting.

Adikes, R.C. (2010) *Myosin 19: a novel mitochondrial associated myosin*. Pan American Studies Institute on the function and regulation of the cytoskeleton. Búzios, Brazil.

Abstracts

Assistant Professor * designates undergraduate directly mentored individual

Shezhad, S.*, McKnight, T.*, **Adikes, R.C.** Cell migration in *C. elegans* as a model for development and disease. 2022 Siena Academic Showcase

Adikes, R.C., Moore, F.E.Q, Fang, A.*, Martinez M.A.Q.M., Ahmed O.B.*, Medwig-Kinney T.N., Zhang W., Gibney, T., Pani, A.M., Stern M.J., Matus, D.Q. Understanding the Quiescence to Proliferative Switch *in vivo*. 2021 ASCB Annual Meeting

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Postdoctoral * designates undergraduate author ^designates directly mentored individual

Moore, F.^, **Adikes, R.C.**, Fang, A.^, Martinez, M, Ahmed O.A.^, Medwig-Kinney, T., Stern M., Matus, D., Investigating the G0/G1 transition: Insights from a *C. elegans* cdk-4 mutant with a sex myoblast specific proliferation defect. 2021 Society for Developmental Biology and 2021 International Worm Meeting

Abraha Z.S., Sepulveda, S., Toledo-Jacobo L., Harris-Smith, K., Matus, D.Q., **Adikes R.C.**, Henson, J., Shuster, C.B. Cell Cycle Regulation & Polarity Reversal of the Epithelial-Mesenchymal Transition During Sea Urchin Gastrulation. 2021 Society for Developmental Biology

Adikes, R.C., Ahmed O.A.*^, Gacha Garay, M.J.^, Stettinisch, S.R.^, Zhao Q.^, Pani, A.M., Martin, B.L., Matus, D.Q. Cytoskeletal dynamics during muscle progenitor migration. 2020 Cell Bio Meeting

Burns J.A., Hui, Y., **Adikes R.C.**, Matus, D.Q., Duhamel, S., Kerney, R., When plants and animals become one: Organismal and cellular interactions in a vertebrate-alga symbiosis. 2020 Cell Bio Meeting

Karthikaichamy, A. **Adikes, R.C.**, Matus D.Q., Rest, J.S., Collier, J.L. Cytoplasmic Membrane Extensions in a Non-model Protist. 2020 Cell Bio Meeting

Abraha Z.S., Sepulveda, S., Toledo-Jacobo L., Harris-Smith, K., Matus, D.Q., **Adikes R.C.**, Shuster, C.B. Spatiotemporal Markers of the Epithelial-Mesenchymal Transition During Sea Urchin Gastrulation. 2020 Cell Bio Annual Meeting

Ahmed O.B.^, **Adikes R.C.**, Kim, N.^, Zhao, Q.^, Zhang Z., Swayze, K., Goldstein, B., Pani, A.M., Deng, Y., Matus D.Q. Cytoskeletal dynamics during *C. elegans* muscle progenitor migration. Presented at the 2020 Triangle Cytoskeleton Meeting

Adikes, R.C., Gacha Garay, M.J.^, Stettinisch, S.R.^, Martin, B.L., Matus, D.Q. Cell cycle and cytoskeletal dynamics in the zebrafish tailbud. 2020 EMBO conference on Neuromesodermal Progenitors Virtual

Al Anber, Kinney, B.A., **Adikes, R.C.**, Martin, B.L., The role of canonical Wnt signaling and Sox2 in maintenance and fate determination of neuromesodermal progenitors in the zebrafish tailbud. Presented at 2020 EMBO conference on Neuromesodermal Progenitors Virtual

Ahmed, O.A.*^, **Adikes, R.C.**, Kim, N.^, BIO327 Developmental Genetic Lab*^, Matus, D.Q. The role of actin rich protrusions in sex myoblast migration and differentiation in *C. elegans*. Presented at 2019 Northeast Region Society for Developmental Biology

Adikes R.C., Ahmed O.B.*^, Kim, N.^, Goldstein, B., Pani, A.M., Matus, D.Q. Cell cycle and cytoskeletal dynamics during muscle progenitor migration. Presented at the 2019 ASCB Annual Meeting. Ahmed O.B. awarded first place for her poster presentation.

Adikes R.C., Kim, N.^, Martin, B.L., Matus, D.Q. Cell cycle and cytoskeleton regulation of cell migration and differentiation of *C. elegans* sex myoblasts and zebrafish paraxial mesoderm. Presented at the 2018 ASCB Annual Meeting.

Adikes R.C., Kim, N.^, Burns, J., Kerney, R., Matus, D.Q. Cell Migration and Invasion During Development. Presented at the 2018 EMBO Light Sheet Fluorescence Microscopy Conference. Dresden, Germany

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Graduate *designates undergraduate author ^designates directly mentored individual

Xue Z.*^, **Adikes, R.C.**, Saway, B.F.*^, Gwyn, A.N.*^, Slep, K.C. Investigating the Structure and Functional Role of the C-Terminal Domain of the Drosophila XMAP215 Protein Family Member Minispindles

Presented at the 2017 ASCB Annual Meeting, Philadelphia, PA.

Adikes, R.C., Saway B.F.*^, Hallett R. A., Kuhlman B., Slep K.C. Illuminating the role of Microtubule-Actin Crosslinking via Optogenetics. Presented at 2017 ASCB Annual Meeting, Philadelphia, PA.

Adikes, R.C., Saway B.F.*^, Hallett R.A., Kuhlman B., Slep K.C. Optogenetic Control of Microtubule-Actin Crosslinking. Presented at the 2016 Society for Developmental Biology Annual Meeting[#], Triangle Cytoskeleton Meeting, Durham NC, September 2016, and 2016 ASCB Annual Meeting, San Francisco. [#]Adikes, R.C., awarded honorable mention for poster presentation.

Adikes, R.C., Saway, B.F.*^, Hallett, R.A., Kuhlman, B., Slep, K.C. Illuminating the regulation of microtubule dynamics through the use of a novel optogenetic tool, SKIP-iLID. Triangle Cytoskeleton Meeting, Durham NC, September 2015 and the 2015 ASCB Annual Meeting, San Diego CA. Poster presented by Saway, B.F.

Adikes, R.C., Hallett, R.A., Saway, B.F.*^, Kuhlman, B., Slep, K.C. Probing Msps polymerase activity in space and time. 2015 Biology Research Symposium, University of North Carolina.

Fadero, T.C.*^, **Adikes, R.C.**, Jaime F.C., Slep, K.C. Characterization of DTACC structure and function. Triangle Cytoskeleton Meeting, Durham NC, September 2014

Slep, K.C., Plevock, K.P., **Adikes, R.C.**, Campbell, J.N., Howard, A.E. The *S.cerevisiae* XMAP215 family member Stu2 arranges its TOG domain array using a structurally distinct 15nm parallel coiled coil. Triangle Cytoskeleton Meeting, Durham NC September 2014

Undergraduate

Adikes, R.C., Unrath W.C., Yengo, C.M., and Quintero, O.A. Biochemical analysis of the myosin-XIX motor domain. Mol. Bio. Cell. 22 4705 Abstract No. 316. Presented at the 2011 ASCB Annual Meeting

Kobayashi, M., E.P, Debold, M.A. Turner, **R. Adikes**, and T. Kobayashi. Cardiac muscle activation blunted by a mutation to the regulatory component, troponin T. 25th Anniversary Symposium of the Protein Society, Boston MA July 2011.

Adikes, R.C., Krol, K.A., Yengo, C.M., Quintero, O.A. (2010) Myosin-XIX (Myo19) is an actin-activated ATPase peripherally associated with the mitochondrial outer membrane via a novel mitochondrial association domain. Mol. Bio. Cell. 21 (suppl). Abstract No. 1059/B234 Presented at the 2010 ASCB Annual Meeting.

Adikes, R.C., DiVito, M. M., Slater, S. Q., Gutierrez, N., Van Tieghem, M. R., Demczko, M. M., Cheney, R. E., Yengo, C. M., and Quintero, O. A. (2009). Myosin-XIX is an unconventional myosin involved in mitochondrial dynamics. Mol. Bio. Cell. 20 (suppl). Abstract No. 1019/B177 Presented at the 2009 ASCB Annual Meeting.

Grants

Previous Awarded

- NIH NIGMS F32: Cytoskeletal and Cell Cycle Regulation of Cell Migration During Development
- NIH NRSA F31: Investigating the role of the Drosophila XMAP215 family member, Mini spindles, at centrosomes and kinetochore microtubule plus ends during mitosis.
- Edwin Grant Conklin Memorial Fund to attend the 2017 Embryology Course and WoodsHole, Summer 2017
- The Company of Biologists Ltd Scholarship to attend the 2017 Embryology Course and Woods Hole, Summer 2017
- L.I. Gilbert Travel Award to attend the Society for Developmental Biology 75th Annual Meeting
- ASCB Graduate Student Travel Award, 2015, 2017
- ASCB Local Meeting Grant, 2014
- North Carolina Biotechnology Center: Biotechnology Event Sponsorship, 2014
- Fulbright Research Grant, September 2011- June 2012
- Ellen P. Resse Research Fund for undergraduate independent research, Summer 2010
- Feldman-Koster Fund for independent summer research, Summer 2009
- HHMI Cascade Mentoring Program Mount Holyoke College, Summer 2008

Honors

- Graduate student poster prestation Society for Developmental Biology: Honorable Mention, 2017
- National Science Foundation Graduate Research Program: Honorable Mention, 2014
- National Science Foundation Graduate Research Program: Honorable Mention, 2013
- Graduated *magna cum laude* from Mount Holyoke College, 2011
- Edna H Graham '41 Prize awarded to a chemistry or biochemistry major who shows promise of continued professional activity in her discipline, Mount Holyoke College, 2011
- Excellence in Teaching Award, Mount Holyoke College, 2011
- Barry M. Goldwater Scholarship and Excellence in Education: Honorable Mention for Excellence in Mathematics, Science and Engineering, 2010
- Bernice MacLean Awards for Excellence in the Biological Sciences, Mount Holyoke College, 2010
- NEWMAC Academic All-Conference Team, Mount Holyoke College, 2009, 2010, 2011

Service

- Co-Organizer: Society for Developmental Biology Satellite Symposium – Emerging Leaders in Live Cell Imaging Approaches for Developmental Biology, 2020
- Safe Spaces Committee Graduate Student Member 2016-2018
- Co-Founder and Public Relations Coordinator: Academic and Research-Intensive Career Cohort, 2016
- Co-Founder and Organizer: ASCB sponsored Triangle Cytoskeleton Meeting, September 2014
- Moorehead Science Ambassador, 2014
- Treasurer: Biology Graduate Student Association, 2014-2015
- Student Representative: Biology Graduate Student Association, 2013-2014
- Co-Chair: UNC Cytoskeleton and Migration Club, 2013-2017
- DNA Day Science Fair Booth, UNC, Spring 2013
- Volunteer for Research Days, Center for Genomic Regulation, Fall 2011-Spring 2012
- Science Club Creator/Teacher: Connections Program at William Peck Middle School, Holyoke, MA, 2010-2011

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Memberships in professional societies

- American Society for Cell Biology, 2008-present
- Biophysical Society, 2010-Present
- American Association for the Advancement of Science, 2016-2019
- Society for Developmental Biology, 2016-Present
- International Zebrafish Society, 2020-Present
- Genetics Society of America, 2020-Present

