Updated August 13, 2025

Joseph Marquardt
Curriculum vitae

joseph.marquardt@wku.edu

CURRENT POSITION

Assistant Professor, Department of Biological Sciences
Western Kentucky University
1906 College Heights Blvd., KTH3014
Bowling Green, KY 42101

POSITIONS AND EMPLOYMENT

2022-present Assistant Professor, Department of Biological Sciences, Western Kentucky University1906 College Heights Blvd., KTH3014 Bowling Green, KY 42101

2017-2022 *Postdoctoral Research Associate* in the laboratory of Dr. Erfei Bi at the University of Pennsylvania, Philadelphia, PA 19104

2011-2017 *Graduate Teaching Assistant* for the Department of Molecular Genetics at The Ohio State University, Columbus, OH 43210

2010-2017 *Graduate Research Assistant* in the laboratory of Dr. Harold Fisk at The Ohio State University, Columbus, OH 43210

2007-2010 *Undergraduate Research Assistant* in the laboratory of Dr. Jeffrey Marcus at Western Kentucky University, Bowling Green, KY 42101

EDUCATION

Ph.D., Molecular Genetics, The Ohio State University, May 2017
Dissertation: “Examining the Regulation and Functions of Centrosomal Mps1”

B.S., Recombinant Gene Technology, Western Kentucky University, May 2010
Honors CE/T: “Molecular Tools for Understanding the Population Genetic Effects of Habitat Restoration on Butterflies”

CURRENT RESEARCH INTERESTS

My primary training is in molecular biology, eukaryotic cell biology, and yeast genetics. Based on this formal training, my current research interests are as follows:

- Cell shape control mechanisms by the kinase Elm1 in the budding yeast *Saccharomyces cerevisiae*
- Dynamic localization of the scaffold Hsl7 during discrete cell cycle events
- Evolutionary relationship of Hsl7 for fungal pathogenesis

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PUBLICATIONS

*Undergraduate student directly mentored by me.

WKU

2025 **2.** Rivera, V.*, Sharma, N., and **Marquardt, J.** (2025). Effect of dietary flavonoids quercetin and naringenin on growth and stress response in *Saccharomyces cerevisiae*. Journal of Pharmacognosy and Phytochemicals, 14(3), 363-371.

2024 **1. Marquardt, J.**, Chen, X., and Bi, E. (2024). Reciprocal regulation by Elm1 and Gin4 controls septin hourglass assembly and remodeling. Journal of Cell Biology, 223(5).

Prior to WKU

2021 **7. Marquardt, J.**, Chen,X., and Bi,E. (2021). Septin assembly and remodeling at the cell division site during the cell cycle. Frontiers in Cell and Developmental Biology, 9, 3358.

2020 **6. Marquardt, J.**, Yao, L., Okada, H., and Bi, E. (2020). The LKB1-like Kinase Elm1 Controls Septin Hourglass Assembly and Stability by Regulating Filament Pairing. Current Biology, 30(12), 2386-2394.

2019 **5. Marquardt, J.**, Chen, X., and Bi, E. (2019). Architecture, remodeling, and functions of the septin cytoskeleton. Cytoskeleton (Hoboken), 76(1), 7-14.

2018 **4. Marquardt, J.** and Marcus, J. (2018). Molecular tools for understanding landscape genetics and the population genetic effects of habitat restoration on butterflies. Journal of the Lepidopterists' Society, 72(4), 253-264.

2016 **3. Marquardt, J.**, Perkins, J., Beuoy, K.*, and Fisk, H. (2016). Modular elements of the tetratricopeptide repeats in the Mps1 amino-terminus target Mps1 to centrosomes and kinetochores. PNAS, 113(28), 7828-33.

2016 **2. Marquardt, J.** and Fisk, H. (2016). ARHGEF17 Sets the timer for retention of Mps1 at kinetochores. JCB, 212(6), 615-616.

2012 **1.** Majumder, S., Slabodonick, M., Pike, A., **Marquardt, J.**, and Fisk, H. (2012). VDAC3 regulates centriole assembly by targeting Mps1 to centrosomes. Cell Cycle, 11(19), 3666-3678.

AWARDS AND HONORS

WKU

2024 CITL Teaching Honor nomination

2024 Biology Department Mentor of the Year Award

2023 OCSE Junior Faculty Award for Excellence in Teaching
2023 CITL Teaching Honor nomination
2022 CITL Teaching Honor nomination

Prior to WKU
2022 Best poster presentation award for the University of Pennsylvania Cell and Developmental Biology Department Retreat
2020 Regeneron Innovation Prize applicant chosen to represent the University of Pennsylvania
2014 American Society for Cell Biology Graduate Student Travel Award
2012 Graduate Teaching Assistant Award, Department of Molecular Genetics, The Ohio State University

GRANTS AND FELLOWSHIPS

WKU (total: $1,010,966 applied, $1,004,966 awarded)
2025 WKU Gatton academy Research Internship Supply Grant (RIG) for Sophia Thomas, $500 awarded for Summer 2025
2025 WKU FUSE grant for undergraduate researcher Emma Thorn, $3,000 awarded for Spring 2025 (#25-FA230)
2025 NIH R16 SuRE-First Award. Project Title: “Examination of Elm1, polarity, and endocytosis for regulation of cellular morphogenesis in budding yeast.” $500,000 direct costs awarded (#1R16GM159605-01).
2024 WKU FUSE grant for undergraduate researcher Kaylee Brannon, $3,000 applied for Fall 2024 (not funded)
2024 NIH Instrumentation Grant for a Bio-Rad Chemi Gel Doc as co-PI, Main PI: Dr. Simran Banga, $50,656 awarded.
2024 WKU Gatton academy Research Internship Supply Grant (RIG) for Aanyaa Arora, $500 awarded for Summer 2024
2024 KY INBRE Research Project Award, $100,000 awarded, $50,000 for FY25 and $50,000 for FY26 contingent on renewal (#8P20GM103436)
2023 WKU FUSE grant for Gatton Academy researcher Nikhil Kumar, $3,000 awarded for Spring 2024 (#24-SP258)
2023 NSF MRI for fluorescence activated cell sorter as co-PI, Main PI: Dr. Simran Banga, $297,393 awarded.
2023 WKU FUSE grant for undergraduate researcher Jenson Harner, $3,000 awarded for Fall 2023 (#23-FA234)
2023 WKU FUSE grant for undergraduate researcher Callie Stempa, $3,000 applied for Fall 2023 (not funded)
2023 WKU Gatton academy Research Internship Supply Grant (RIG) for Nikhil Kumar, $500 awarded for Summer 2023
2023 WKU RCAP for FY2024, $15,917 awarded (#24-8013)
2023 KY INBRE EM voucher, $5,000 awarded for FY2023
2022 WKU Gatton academy Research Supply Grant (RSG) for Presley Neagle, $500 awarded

2022 KY INBRE start-up grant, $25,0000 awarded for FY2023 (May 2023-April 2024), Western Kentucky University (#P20GM103436 – 22)

Prior to WKU

2013 Pelotonia Graduate Student Research Fellowship, The Ohio State University, August 2013-December 2015

2009 Kentucky Academy of Science Undergraduate Research Grant, "*Molecular Tools for Understanding the Population Genetic Effects of Habitat Restoration on Butterflies*," Western Kentucky University, May 2009-May 2010

2009 Sigma Xi Undergraduate Research Grant, "*Molecular Tools for Understanding the Population Genetic Effects of Habitat Restoration on Butterflies*," Western Kentucky University, May 2009-May 2010

CONFERENCE PARTICIPATION

*Undergraduate/graduate student directly mentored by me.

WKU

Oral Presentation

2025 **9. "**Investigating the Interactions between Hsl7 and Elm1 in the Morphogenesis Checkpoint in Saccharomyces cerevisiae." Rachel Foster* and **Joseph Marquardt.** KY-INBRE Annual Research Conference, January 31-February 1. *Chosen for a "Flash Talk" out of more than 100 poster presenters.*

2024 **8. "**A Coordinated Effort Between a Septin-associated Kinase and Endocytic Protein to Regulate Cell Shape in Budding Yeast." Presley Neagle* and **Joseph Marquardt**. Cell Bio 2024 meeting (ASCB/EMBO) in San Diego, CA, December 6-10.

2024 **7.** "Investigating the Regulation of Cell Cycle and Shape by the Polarity Proteins and the Mitotic Exit Network in Yeast." Aanyaa Arora*, Nikhil Kumar*, and **Joseph Marquardt**. Kentucky Academy of Science, November 1-2. *Aanyaa chosen as a delegate for the American Junior Academy of Science meeting*.

2024 **6.** "Shedding Light On Cancer By Exploring The Influence Of Bem1, Boi1, And Boi2 Proteins On The Elm1 Protein Kinase-mediated Cell Shape Control In *Saccharomyces Cerevisiae*. Nikhil Kumar* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **5. "**Cell shape is mediated by a joint effort between a septin-associated kinase and endocytic protein." Presley Neagle* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **4.** "Novel Techniques for Imaging Yeast Septins That Do Not Require Hydrofluoric Acid." Fletcher Johnson* and **Joseph Marquardt**, KY-INBRE Annual Research Conference-EM Workshop small group, March 1.

2024 **3. "**Cell shape is mediated by a joint effort between a septin-associated kinase and endocytic protein." Presley Neagle* and **Joseph Marquardt**, KY-INBRE Annual Research Conference, March 1. *Chosen for a "Flash Talk" out of more than 100 poster presenters.*

2023 **2.** “Exploring the influence of polarity proteins on the Elm1 protein kinase-mediated cell shape control.” Nikhil Kumar* and **Joseph Marquardt**, Kentucky Academy of Science, November 3-4. *Awarded top scoring “Thoroughbred” ranking.*

2023 **1.** “Effect of Dietary Flavonoids on Growth in *Saccharomyces cerevisiae*.” Vivian Rivera* and **Joseph Marquardt**, Kentucky Academy of Science, November 3-4. *Awarded top scoring “Thoroughbred” ranking.*

Poster Presentation

2025 **28.** “Investigating the Signal Intensity of Two Fluorescent Markers in Relation to Proteins in the Morphogenesis Checkpoint in Saccharomyces cerevisiae.” Luke Walker* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **27.** “Investigating the Ability of an Interspecies Gene to Rescue Shape Control Defects in Budding Yeast.” Amelia Baker* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **26.** “Coordination of Cell Growth by Two Yeast Kinases to Control Cell Shape.” Lilian Branch* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **25.** “Genetic and physical interactions between Ste20 and Elm1 kinases require kinase activity for cell morphogenesis.” Emma Thorn* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **24.** “Cell shape is mediated by a joint effort between a septin-associated kinase and endocytic protein.” Presley Neagle* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **23.** “Cell shape is a coordinated effort between a yeast kinase and cell wall machinery in Saccharomyces cerevisiae.” Kaylee Brannon* and **Joseph Marquardt,** WKU Student Scholar Showcase, April 5.

2025 **22.** “Investigating the Interactions between Hsl7 and Elm1 in the Morphogenesis Checkpoint in Saccharomyces cerevisiae.” Rachel Foster*, Luke Walker*, and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **21.** “Investigating mechanisms of polarisome regulation by the kinase Elm1.” Jenson Harner* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 5.

2025 **20.** “Investigating the Regulation of Cell Cycle and Shape by the Polarity Proteins and the Mitotic Exit Network in Yeast.” Aanyaa Arora*, Nikhil Kumar*, and **Joseph Marquardt.** Yale Undergraduate Research conference, April 4-5.

2025 **19.** “Investigating the Regulation of Cell Cycle and Shape by the Polarity Proteins and the Mitotic Exit Network in Yeast.” Aanyaa Arora*, Nikhil Kumar*, and **Joseph Marquardt.** American Junior Academy of Science in Boston, MA, February.

2025 **18.** “Cell shape is a coordinated effort between a yeast kinase and cell wall machinery in Saccharomyces cerevisiae.” Kaylee Brannon* and **Joseph Marquardt,** KY-INBRE Annual Research Conference, January 31-February 1. *Awarded 2nd Place Presentation for Molecular and Cell Biology Group*.

2025 **17.** “Investigating the Interactions between Hsl7 and Elm1 in the Morphogenesis Checkpoint in Saccharomyces cerevisiae.” Rachel Foster*, Luke Walker*, and

Joseph Marquardt, KY-INBRE Annual Research Conference, January 31-February 1.

2025 **16.** “Investigating mechanisms of polarisome regulation by the kinase Elm1.” Jenson Harner* and **Joseph Marquardt**, KY-INBRE Annual Research Conference, January 31-February 1.

2024 **15. “**Exploring the Influence of Bem1, Boi1, and Boi2 proteins on the Elm1 Protein Kinase – Mediated Cell Shape Control in Saccharomyces cerevisiae.” Nikhil Kumar*, Aanyaa Arora*, and **Joseph Marquardt,** Cell Bio 2024 meeting (ASCB/EMBO) in San Diego, CA, December 6-10.

2024 **14. “**Cell shape is a coordinated effort between a yeast kinase and cell wall machinery in Saccharomyces cerevisiae.” Kaylee Brannon* and **Joseph Marquardt**, Kentucky Academy of Science, November 1-2.

2024 **13.** “Investigating the Interactions between Hsl7 and Elm1 in the Morphogenesis Checkpoint in Saccharomyces cerevisiae.” Rachel Foster*, Luke Walker*, and **Joseph Marquardt**, Kentucky Academy of Science, November 1-2.

2024 **12.** “Effect of Dietary Flavonoids on Growth in *Saccharomyces cerevisiae*.” Vivian Rivera* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **11.** “Investigating the effects of tag positions on morphogenesis checkpoint proteins.” Julia Allen* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **10.** “Investigating cell shape control by the polarisome and septin-associated kinases in *Saccharomyces cerevisiae*.” Jenson Harner* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **9.** “Novel Techniques for Imaging Yeast Septins That Do Not Require Hydrofluoric Acid.” Fletcher Johnson* and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **8.** “Investigating the Ability of an Interspecies Gene to Rescue Shape Control Defects in Budding Yeast.” Amelia Baker*, Josiah Shackleford*, and **Joseph Marquardt**, WKU Student Scholar Showcase, April 6.

2024 **7.** “Exploring the Influence of Bem1 and Boi1 Proteins on the Elm1 Protein Kinase-Mediated Cell Shape Control in *Saccharomyces cerevisiae*.” Nikhil Kumar* and **Joseph Marquardt**, KY-INBRE Annual Research Conference, March 1. *Awarded Top Score Presentation for the entire conference*.

2024 **6.** “Novel Techniques for Imaging Yeast Septins That Do Not Require Hydrofluoric Acid.” Fletcher Johnson* and **Joseph Marquardt**, KY-INBRE Annual Research Conference, March 1.

2024 **5.** “Effect of Dietary Flavonoids on Growth in *Saccharomyces cerevisiae*.” Vivian Rivera* and **Joseph Marquardt**, KY-INBRE Annual Research Conference, March 1.

2023 **4.** “Cell morphogenesis controlled by genetic interaction between a septin kinase and MAP kinase.” Callie Stempa* and **Joseph Marquardt**, Kentucky Academy of Science, November 3-4. *Awarded top scoring “Thoroughbred” ranking.*

2023 **3.** “Investigating cell shape control by the polarisome and septin-associated kinases in *Saccharomyces cerevisiae*.” Jenson Harner* and **Joseph Marquardt**, Kentucky Academy of Science, November 3-4.

2023 **2.** “Cell shape is mediated by a joint effort between a septin-associated kinase and endocytic protein.” Presley Neagle* and **Joseph Marquardt**, Kentucky Academy of Science, November 3-4. *Awarded top scoring “Thoroughbred” ranking.*

2023 **1.** “Exploring the influence of Bem1 and Boi1 proteins on the Elm1 protein kinase-mediated cell shape control in *Saccharomyces cerevisiae*.” Nikhil Kumar* and **Joseph Marquardt**, NCSSS IMSA conference, June 23.

Prior to WKU

Poster Presentation

2022 **3.** “Crosstalk regulation between the septin-associated kinases Elm1 and Gin4,” University of Pennsylvania Cell and Developmental Biology Department Retreat, May.

2019 **2.** “Regulation of septin architecture and function by the LKB1-like kinase Elm1,” American Society for Cell Biology Annual meeting, December 7-11.

2014 **1.** “Localization determinants in the Mps1 amino terminus distinguish centrosomal and kinetochore targeting,” American Society for Cell Biology Annual meeting, December 6-10.

INVITED SPEAKER

WKU

2024 KY-INBRE External Advisory Committee presentation. Presented updated work by the Marquardt Lab including data, internal and external grants, and student engagement practices for the EAC. University of Kentucky, February 29.

2024 RCAP Information Session for new applicants. Served on a panel of other successful recent RCAP applicants to share insights and tips for best practices in applying for RCAP awards. Western Kentucky University, January 29.

2023 Mahurin Honors College Young Alumni Speaker Series. Discussed career trajectory and opportunities that my time enrolled in the honors college provided me during my academic journey. Western Kentucky University, November 7.

2022 Invited speaker to discuss research at WKU and career pathway into academia with undergraduates of the Molecular Biotechnology major. Western Kentucky University, Biology 388, October 7.

Prior to WKU

2019 “Molecular Tools for Understanding the Population Genetic Effects of Habitat Restoration on Butterflies,” The Academy of Natural Sciences at Drexel University lecture series, June 21.

2018 “Regulation of septin architecture and function by the LKB1-like kinase Elm1,” University of Pennsylvania Cell and Developmental Biology Department Retreat, May 4.

SERVICE TO THE PROFESSION

WKU

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Department
2024-present Biology Assessment Committee
2024-present Biology Progression Committee
2024 Search committee for Microbiology Faculty position
2023-present Advising of Pre-Med and Forensics/Genetics undergraduates
2022-2024 Biology Retention Committee
2023 Search committee for Biotechnology Center Lab Manager position

College
2025 Ogden Awards Committee

University
2025 Search committee for Mahurin Honors Director
2024 CITL workshop moderator for "The Art of Balance: Active Learning & Lecture Integration" (August 2024)
2024 Faculty Interview Committee for STEM Specialist applicants in the Office of Scholar Development (June 2024)
2024 Session Chair for WKU Student Scholar Showcase (April 2024)
2024 "Head for the Hill" event for incoming students (Feb 2024)
2024 Reviewer for RCAP grants for FY25
2023-present TOPS advising event for incoming students (Apr 2023, Aug 2023, June 2024, April 2025)
2023 **"**Choose WKU" day, facilitated a tour of the biology labs in EBS (Feb 2023)
2022 Presidential Scholarship "Meet your college" recruiting event (Oct 2022)
2022 Invited speaker, Tri-Beta faculty series (Oct 2022)
2022-present Faculty reviewer for Faculty and Undergraduate Student Engagement (FUSE) grants

Profession
2025 Peer-reviewer for *mLife*
2025 Peer-reviewer for *Molecular Biology of the Cell*
2024 Peer-reviewer for *Current Biology*
2023 Peer-reviewer for the *Journal of the Kentucky Academy of Science*

Prior to WKU
Invited Speaker Search Committee
2019 Distinguished Seminar Series- University of Pennsylvania Cell and Developmental Biology Department Postdoc Invited speaker series
2014 38th Annual Adolf E. Waller Memorial Lecture Series- Ohio State University Molecular Genetics

Institutional Biological Safety Committee
2017 Swarthmore College- Served as the external reviewer for two NIH-funded grants that required IBC clearance to use biological samples in new research labs

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STUDENT MENTORING

Undergraduate Students (*Total:20)*			
Name	**Year**	**Type**	**Current Employment**
Callie Stempa	2022-2023	Paid position, Biol 399	Graduated Au23, PhD Student at University of Iowa
Gabe Rogers	2022	Biol 399	Graduated SP23
Jenson Harner	2022-2024	Paid position, Biol 399	Graduated SP24, MS Student at WKU
Julia Allen	2022-2024	Paid position, Biol 399	Graduated SP24, Genetic Counselor's Assistant
Presley Neagle	2022-	Biol 399	Undergraduate Student
Josiah Shackleford	2023	Biol 399	Graduated Au23
Cameron Seigle	2023-2024	Biol 399	Graduated SP24
Vivian Rivera	2023-2024	Honors CE/T	Graduated SP24, PhD Student at The Ohio State University
Nikhil Kumar	2023-2024	Biol 399, Summer intern	Graduated Gatton SP24, Undergraduate at University of Kentucky
Fletcher Johnson	2023-2024	Paid position	Graduated SP24
Amelia Baker	2023-	Paid position	Undergraduate Student
Kaylee Brannon	2023-	Paid position	Undergraduate Student
Luke Walker	2024-2025	Biol 399	Graduated SP25, applying to PA schools
Sophia Blair	2024-2025	Biol 399	Graduated SP25, applying to medical schools
Aanyaa Arora	2024-2025	Biol 399, Summer Intern	Graduated Gatton in SP25, Undergraduate at University of Kentucky
Rosalitha Perry	2024	Summer Intern	Undergraduate Student
Meredith Moser	2024	Biol 399	Graduated SP25, applying to dental schools
Emma Thorn	2024-	Biol 399, Honors CE/T	Undergraduate Student
Lilian Branch	2024-	Biol 399, Honors CE/T	Undergraduate Student
Sophia Thomas	2025	Summer Intern	Gatton Student

Graduate Students (*Total:2)*			
Name	**Year**	**My Role**	**Current Employment**
Rachel Foster	2023-2025	Mentor	MS in SP25, PhD Student at University of Kentucky

Jenson Harner	2024-	Mentor	Graduate student

TEACHING EXPERIENCE

Western Kentucky University, Assistant Professor

Biol 120 Biological Concepts: Cells, Metabolism, and Genetics (SP2023, AU2023, AU2024)
Biol 120H Honors Biological Concepts: Cells, Metabolism, and Genetics (SP2023, AU2024)
Biol 319 Introduction to Cell and Molecular Biology (AU2022, SP2023)
Biol 319H Honors Introduction to Cell and Molecular Biology (AU2022, SP2023)
Biol 350 Introduction to Recombinant Genetics (SP2024, SP2025)
Biol 388 Contemporary Issues in Biotechnology (SP2024, SP2025)
Biol 501 Model Systems in Bio Research (AU2024)

The Ohio State University, Graduate Teaching Assistant

General Genetics (AU2011, AU2012, SU2016, AU2016)
General Genetics Lab (SU2016, AU2016)
Biological Sciences: Form, Function, Diversity, and Ecology (SP2016, SP2017)
Eukaryotic Cell and Developmental Biology Lab (SP2012, SP2013, SP2015)
Quantitative, Population, and Evolutionary Genetics (AU2016)

PREVIOUS RESEARCH EXPERIENCE

Western Kentucky University, Undergraduate Research Assistant

Butterfly population genetics and molecular biology research in the lab of Jeffrey Marcus to elucidate the role of habitat corridor construction on local butterfly population structure. Relevant techniques used include field work collecting butterfly samples, genomic DNA isolation, molecular fingerprinting and sequencing, and phylogenetic tree generation and interpretation.

The Ohio State University, Graduate Research Assistant

Mammalian cell culture and molecular biology research in the lab of Harold Fisk to elucidate the role of a protein kinase Mps1 in centrosome biology. Relevant techniques used include molecular cloning, protein purification, immunoprecipitation, SDS-PAGE and western blotting, mammalian cell culture, immunofluorescence, fluorescent fixed and live-cell microscopy.

The University of Pennsylvania, Postdoctoral Research Associate

Yeast cell and molecular biology research in the lab of Dr. Erfei Bi to elucidate the structural composition and dynamics of septin architecture throughout the cell cycle. Relevant techniques include molecular cloning, protein purification, immunoprecipitation, SDS-PAGE and western blotting, yeast genetics, live-cell confocal microscopy, *in vivo* protein dynamics via fluorescence recovery after photobleaching (FRAP), photo-activation, and photo-conversion.

PROFESSIONAL DEVELOPMENT

Year	Description of Activity	Type
2022	Syllabus training workshop offered by CITL	Teaching
2022	New faculty orientation	Teaching
2022	Blackboard Ultra Introduction (CITL)	Teaching
2022	KY INBRE R15 grant writing workshop	Scholarship
2022-	WKU President's Convocation	Other
2022-	Ogden College Opening Meeting	Other
2023	New faculty orientation (continuance and SITES)	Teaching
2023	Blackboard Ultra Transition	Teaching
2023-	KY INBRE Electron Microscopy Workshop	Scholarship
2023	Distracted Student Engagement keynote speaker (CITL)	Teaching
2023	Demystifying the Publishing Process in *JKAS* (KAS)	Scholarship
2024	Embedding Study Strategies in Content Courses (WKU PD Day)	Teaching
2024	Integrating Transferable Skills for the Workplace into your Curriculum (WKU PD Day)	Teaching
2024	KY INBRE FIJI ImageJ and Illastik workshop	Scholarship
2024	State of EPSCOR funding in KY (KAS)	Scholarship
2024	Research in Biology Education: Innovations in the 21st Century (ASCB)	Teaching
2024	Accelerating Discoveries in Cell Biology Using AI (ASCB)	Scholarship
2024	Science and Art: Bridging Two Creative Universes (ASCB)	Other
2025	Supporting Autistic Learners: Practical Strategies for University Faculty (WKU PD Day)	Teaching
2025	Failing Forward: Cultivating Productive Failure in Student Learning (WKU PD Day)	Teaching
2025	Leveraging AI Tools to Boost Participation and Save Time: Practical Applications for Professors (WKU PD Day)	Teaching
2025	Fiji ImageJ In-house workshop	Scholarship