Ahna Skop

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Positions

Chief Scientific Officer & CEO 7/2025 - Present
aMBR Genomics

Professor of Genetics 2018 - Present
University of Wisconsin, Madison

Affiliate Faculty, Cell & Regenerative Biology 2025 - Present
University of Wisconsin-Madison

Affiliate Faculty, Life Sciences Communication 2015 - Present
University of Wisconsin, Madison

Affiliate Faculty, Art Department 2015 - Present
University of Wisconsin, Madison

Co-Director, MRSEC Education Group 2021 - 2023
UW-Madison
Materials Research Science and Engineering Center (MRSEC)

Visiting Investigator/Sabbatical 2022 - 2022
HHMI/Fred Hutchinson Cancer Center
Dr. Harmit S. Malik's laboratory

IF/THEN Ambassador 2019 - 2021
AAAS & the Lyda Hill Philanthropies

Global Professor of Biology/Sabbatical 2012 - 2013
NYU-Abu Dhabi (2012-2013)

Assoc. Professor of Genetics 2011 - 2018
University of Wisconsin, Madison (2011-2018)

Assist. Professor of Genetics 2004 - 2011
University of Wisconsin, Madison (2004-2011)

Education

B.S. Biology, Minor: Ceramics 1990 - 1994
Syracuse University
Mentor:

- Dr. Kevin VanDoren (d. 1995).

Ph.D. Cell and Molecular Biology 1994 - 2000
University of Wisconsin, Madison
Thesis Advisor:

- **Dr. John White Thesis:** Determining the mechanisms involved in cleavage plane specification and cytokinesis in Caenorhabditis elegans.

Postdoctoral 2000 - 2003
University of California, Berkeley
Mentors

- Dr. Rebecca Heald and Dr. Barbara Meyer, John Yates (Scripps); **NIH postdoctoral fellowship:** A functional proteomic and comparative genomic approach to studying cytokinesis.

Honorary Doctorate of Science (D.Sc.) 2008 - 2008
College of Saint Benedict, St. Joseph, MN

Board Membership

- aMBR genomics, Inc. 2025-present
- ASCB Council (elected), 2024-2027
- Syracuse University BioInspired Board member, 2022-present
- Wisconsin Science Museum, 2016-Present
- SACNAS Board Member elect, 2014-2016
- Museum of Wisconsin Art, 2011-2012

Professional membership

- American Society for Cell Biology (ASCB), 1996-Present
- Genetics Society of America (GSA), 1996-Present
- Society for the Advancement of Native Americans and Chicanos in Science (SACNAS), 2004-Present (Lifetime member)
- Society for Developmental Biology (SDB), 2005-Present
- American Association for the Advancement of Science (AAAS)

Honors & Awards

- Bassam Z. Shakhashiri Public Science Engagement Award, UW-Madison (2026)
- Fellow, Wisconsin Academy of Arts and Sciences (2024)
- Vilas Faculty Mid-Career Investigator Award (2022)
- AAAS IF/THEN Ambassador (2019-2021).
- STEM Superstar at UW-Madison (Brava Magazine) (2019).
- 2018 ASCB/HHMI Award for Excellence in Inclusivity (2018).
- M List Awardee (Madison Magazine), Innovation in the Arts for my NSF-funded "Genetic Reflections" Science Art piece (2018).
- SACNAS/AAAS LPSLI Fellow (2017).
- Chancellor's Inclusive Excellence Award in Teaching (2016).
- UW-Madison Teaching Academy (2016-present).
- HHMI Teaching Mentor, UW-Madison WISCIENCE Teaching Fellows Program (2014-15).
- National Academy of Sciences, Kavli Fontiers in Science Fellow (2015).

- Forward under 40 award, from the Wisconsin Alumni Association (WAA) (2010).
- Carl Storm Underrepresented Fellowship Awardee, Gordon Research Conference, Motile & Contractile Systems (2009).
- 40 under 40, In Business Magazine award (2008).
- Honorary Doctorate of Science (D.Sc.), College of Saint Benedict, St. Joseph, MN (2008).
- Kentucky Colonel (Highest honor bestowed by the state of Kentucky to a Kentuckian) (2008).
- Emerging Scholar, Class of 2008; Diverse: Issues In Higher Education Magazine award (2008).
- Remarkable Woman in Science, AAAS (2008).
- Presidential Early Career Award for Scientists and Engineers (PECASE); President Bush (2006).

Grant Support (Current)

Mechanisms governing the midbody remnant in intercellular RNA communication 05/01/2026 - 04/30/2031
NIH R35-GM169379. Total funds requested: $2,500,000

MBR-RNA liquid biopsy: Performance Benchmarking for Commercial Validation 07/01/2026 - 06/30/2027
Wisconsin State Economic Engagement & Development (SEED) Program: $100,000

Validation of MBR isolation from human serum and tissue samples 2/24/2025 - 2/28/2027
WARF Accelerator: $347,521

Altered transfer of cell fate determinants via the midbody remnant in autism spectrum disorder 12/1/-24 - 11/30/2027
NIH R21MH138941. Total Funds Received: $427,625
Justin Wolter & Ahna Skop (co-I)

Grant Support (Pending)

Midbody Remnants as a vehicle for RNA transfer 2027 - 2030
NSF-MCB
NSF pending support
Total Funds Requested: $840,000

Grant Support (Past)

Tactile Mitosis: Using art to make science accessible 2024 - 2025
Center fro

Functional analysis of mammalian midbody RNA in post-mitotic signaling functions 09/16/2021 - 08/31/2025
NIH-NIGMS R01 (AAJ8576): Total Funds Received: $2,685,560

Vilas Faculty Mid-Career Investigator Award 07/01/2022 - 06/30/2025
UW-Madison (133-AAL3111), Total Funds Received: $100,000

"Lab Culture: Recipes for Innovation in Science" Cook Book/Website 08-01-2020 - 07-30-2021
AAAS: IF/THEN Ambassador Award for outreach
Budget: $10,000

The Midbody as a Novel Translating Organelle 07-01-2020 - 06-30-2021
UW-Madison Campus Competition
Budget: $78,523

Midbodies Package Viral Genomic RNAs and Medial Non-Canonical Viral Transmission 07-01-2020 - 06-30-2021
UW-Madison Campus Competition
Collaborator: Dr. Kristen Bernard
Budget: $51,762

Investigating Midbody mRNA Function during Mitosis 07-01-2017 - 06-30-2020
NSF MCB 1716298
Budget: $897,406

Human Genome Sequencing to Identify Genes Involved in Ehlers Danlos Syndrome, Hypermobility Type 12-01-2018 - 11-29-2019
UW-Madison Campus Translational Research Funding ICTR
Budget: $50,000

Investigating the Contribution of Membrane Trafficking to Cell Division 06-01-2012 - 05-31-2018
NSF-MCB-1158003
Annual direct costs: $227,784

Vilas Life Cycle Award 07-01-2015 - 06-30-2017
UW-Madison
Annual direct costs: $40,00

REU: Membrane Trafficking during Cytokinesis 06-01-2012 - 05-31-2017
NSF MCB MCB-1158003
Annual direct costs: $29,612

STEM Diversity Network 11-01-2015 - 12-31-2017
Sloan Foundation (via George Mason University)
Annual direct costs: $10,000

Investigating Plasma Membrane Regulation during Development 05-15-2008 - 04-30-2014
NIGMS: K01-HL092583; NIH K01 Research Career Development Award
Annual direct costs: $133,545

Regulation of Membrane-Cytoskeletal Dynamics during Cytokinesis 05-15-2006 - 04-30-2012
NSF CAREER Award: MCB: 0546398 (PECASE Award)
Annual Direct Costs: $149,658

Publications (Refereed Articles or In Review)

- **Skop AR**. Condensates on the Move: Midbody Remnants as Large, Translation-Competent Extracellular Vesicles. Bioessays. 2026 Aug;48(8):e70168. doi: 10.1002/bies.70168. PMID: 42549970; PMCID: PMC13435825.
- Kuriyama R, Mullins JM, **Skop AR.** The midbody and midbody remnant: from cellular debris to signaling organelle with diagnostic and therapeutic potential. Mol Biol Cell. 2025 Jul 1;36(7):re4. doi: 10.1091/mbc.E25-03-0120. Epub 2025 May 28. PMID: 40434898; PMCID: PMC12260166.
- Patel, S., Park, S., Torr, E., Zhu, D., Dureke, AG, McIntyre, A., Muzyka, N., Severson, J., **Skop, AR**. (2024) Extracellular vesicles, including large translating vesicles called midbody remnants, are released during the cell cyle. *Molecular Biology of the Cell, Nov 13:mbcE23100384. doi: 10.1091/mbc.E23-10-0384. Epub ahead of print. PMID: 39535882.*
- Murray SA, Holzbaur ELF, Munson M, Cimini D, Lane TF, Alvania R, Applewhite DA, Chang F, Chen EH, Earnshaw WC, Evans CS, Li R, Mierzwa BE, Oliver T, Segarra VA, **Skop AR**, Weaver LN, Asai DJ, Boyce M, Zavala ME, Hammonds-Odie L, Vigoreaux J. ASCB statement of commitment to diversity, equity, and inclusion. Mol Biol Cell. (2024) Aug 1;35(8):ed3. doi: 10.1091/mbc.E24-06-0244. PMID: 39037589.
- **Skop, A.**, Schindler, K. Localized translation in the embryo. *Nat Rev Mol Cell Biol* (2024). **doi:** https://doi.org/10.1038/s41580-024-00725-z
- Jung, GI, Londono-Vasquez, D., Park, S., **Skop, AR.**, Balboula, A., Schindler, K. (2023). A meiotic midbody structure in mouse oocytes acts as a barrier for nascent translation to ensure developmental competence. Nature Communications. 2023 Nov 16;14(1):7419. doi: 10.1038/s41467-023-43288-x.PMID: 37973997
- Park, S., Patel, S., Torr, E., Dureke, AG, McIntyre, A **Skop, AR**. (2023), A protocols for isolation and imaging large extracellular vesicles or midbody remnants from mammalian cell culture, Cell *STAR protocols*, Dec 15; 4(4): 102562. PMID: **37690025**
- Park, S., Dahn, RD, Kurt, E., Presle, A, VanDenHeuvel, K., Moravec, C., Jambhekar, A., Olukoga, O., Shepherd, J., Echard, A., Blower, MD., **Skop, AR** (2023). The midbody and midbody remnant are assembly sites for RNA and active translation. *Developmental Cell 58, 1917-1932. PMID: 37552987*
- Del Castillo, U, Gnazzo, MM, Semaya, E, Lam, Y, Riggs, B., Hall, DH, Gelfand, V, and **Skop, AR** (2019). Conserved role for Ataxin-2 in mediating ER dynamics. Traffic, Jun;20(6):436-447. doi: 10.1111/tra.12647. Epub 2019 May 8. PMID: 30989774.
- Billmyre KK, Doebley AL, Spichal M, Heestand B, Belicard T, Sato-Carlton A, Flibotte S, Simon M, Gnazzo M, **Skop A**, Moerman D, Carlton PM, Sarkies P, Ahmed S. The meiotic phosphastase GSP-2/PPT promotes germline immortality and small RNA-mediated genome silencing. PLoS Genet. 2019 Mar 28;15(3):e1008004. doi: 10.1371/journal.pgen.1008004. PMID: 30921322.
- **Skop, AR** (2018). The entrance: how life experience shaped my passion for diversity and inclusion. Mol Biol Cell. 2018 Nov 1;29(22):2608-2610. doi:10.1091/mbc.E18-07-0431.PMID: 30376436.
- Gnazzo, MM, Villarreal, A, **Skop, AR** (2017). Systematic analysis of atx-2 suppressors reveal a role for CGH-1 function in regulating PAR-5 during mitosis in C. elegans. G3, Published on August 8, 2017; bioRxiv 173856; doi: https://doi.org/10.1101/173856
- Gnazzo, MM, Uhlemann, EM, Villarreal, A, Shirayama, M, Dominguez, EG, **Skop, AR** (2016). The RNA-binding protein ATX-2 regulates cytokinesis through PAR-5 and ZEN-4. Molecular Biology of the Cell. 2016 Oct 15;27(20):3052-3064. PMCID: 27559134.
- Gnazzo MM, **Skop AR**.(2014). Spindlegate: the biological consequences of disrupting traffic. Developmental Cell. 2014 Mar10;28(5): 480-2. doi: 10.1016/j.devcel.2014.02.014. PubMed PMCID: 24636255.
- Bonner MK, Han, BH, **Skop AR** (2013). Profiling of the mammalian mitotic spindle proteome reveals an ER protein, OSTD-1, as being necessary for cell division and ER morphology. PLoS One. 2013 Oct 10;8(10):e77051 PMCID: PMC3794981.
- Pittmann, KJ & **Skop, AR** (2012). Anterior PAR proteins function during cytokinesis and maintain DYN-1 at the cleavage furrow in Caenorhabditis elegans. Cytoskeleton. Aug 6 2012 doi: 10.1002/cm.21053 PMCID: PMC3650724.
- Shivas, JM & **Skop, AR** (2012). C. elegans Arp2/3 mediates early endosomal dynamics and recycling of anterior polarity cues to promote PAR maintenance. Molecular Biology of Cell. 2012 Mar 28. PMCID: PMC3350555.
- Bonner MK, Poole DS, Xu T, Sarkeshik A, Yates III JR, **Skop AR** (2011). Mitotic spindle proteomics in Chinese Hamster Ovary cells. PLoS ONE 6(5): e20489. doi:10.1371/journal.pone.0020489 PMCID: PMC3103581.
- Ai E, Poole DS, **Skop AR** (2011). Long astral microtubules and RACK-1 stabilize polarity domains during maintenance phase in Caenorhabditis elegans embryos. PLoS ONE 6(4): e19020. PMCID: PMC2775247.
- Shivas JM*, Morrison HA*, Bilder D, **Skop AR** (2010). Polarity and endocytosis: reciprocal regulation. Trends in Cell Biology. 20(8): 445-52. *authors contributed equally PMCID: PMC2917511.
- Ai E, **Skop AR** (2009). Endosomal recycling regulation during cytokinesis. Communicative & Integrative Biology. 2(5): 444-7. PMCID: PMC2775247.
- Nakayama Y*, Shivas JM*, Poole DS, Squirrell JM, Kulkoski JM, Schleede JB, **Skop AR**. (2009). Dynamin participates in the maintenance of anterior polarity in the Caenorhabditis elegans embryo. Developmental Cell. Jun; 16(6): 889-900. PMCID: PMC2719978.
- Ai E, Poole DS, **Skop AR** (2009). RACK-1 directs dynactin-dependent RAB-11 endosomal recycling during mitosis in Caenorhabditis elegans. Molecular Biology of the Cell. Mar; 20(6): 1629-38. PMCID: PMC2655251.
- Bonner MK, **Skop AR** (2008). Cell division screens and dynamin. Biochemical Society Transactions. Jun; 36(Pt 3): 431-5. PMCID: PMC3660067.
- Zhang H, **Skop AR**, White JG (2008). Src and Wnt signaling regulate dynactin accumulation to the P2-EMS cell border in C. elegans embryos. Journal of Cell Science. Jan 15; 121(Pt 2): 155-61. PMCID: 18187449.

- Dinkelmann MV, Zhang H, **Skop AR**, White JG (2007). SPD-3 is required for spindle alignment in Caenorhabditis elegans embryos and localizes to mitochondria. Genetics. Nov; 177(3): 1609-20. PMCID: PMC2147968.
- Konopka CA, Schleede JB, **Skop AR**, Bednarek SY (2006). Dynamin and cytokinesis. Traffic. Mar; 7(3): 239-47. PMCID: PMC3654675.
- Otegui MS, Verbrugghe KJ, **Skop AR** (2005). Midbodies and phragmoplasts: analogous structures involved in cytokinesis. Trends in Cell Biology. Aug; 15(8): 404-13. PMCID: PMC3677513.
- **Skop AR**, Liu H, Yates J 3rd, Meyer BJ, Heald R (2004). Dissection of the mammalian midbody proteome reveals conserved cytokinesis mechanisms. Science. Jul 2; 305(5680): 61-6. PMCID: PMC3679889.
- Thompson HM*, **Skop AR***, Euteneuer U, Meyer BJ, McNiven MA (2002). The large GTPase dynamin associates with the spindle midzone and is required for cytokinesis. Current Biology. Dec 23; 12(24): 2111-7. *authors contributed equally PMCID: PMC3690653.
- **Skop AR**, Bergmann D, Mohler WA, White JG (2001). Completion of cytokinesis in C. elegans requires a brefeldin A-sensitive membrane accumulation at the cleavage furrow apex. Current Biology. May 15; 11(10): 735-46. PMCID: PMC3733387.
- **Skop AR**, White JG (1998). The dynactin complex is required for cleavage plane specification in early Caenorhabditis elegans embryos. Current Biology. Oct 8; 8(20): 1110-6. PMCID: PMC3690630.

Patents

1. P230134US01: THE MIDBODY AND MIDBODY REMNANT ARE ASSEMBLY SITES FOR RNA AND ACTIVE TRANSLATION
2. P250044US01: Cell type specific RNAs in Midbody remnants
3. P260258US01: Viral RNA targeting to Midbodies and Midbody Remnants for Diagnostics and Therapy
4. P64/103.869: Process for isolating Midbody Remnants (aMBR genomics, Inc).

Books

- **Skop, Ahna., R**., Qing, C, Rauf, H., Blaszczyk, S., Kurt, E., Chu, D. (2025), "Lab Culture: A recipe for innovation in science", Self-published on Amazon.com, April 17, 2025, p1-199, ISBN-13 : 979-831712440
- **Skop, Ahna R**, Kurt, E., Marks, C. (2020) Genetic Reflections: A Coloring Book. Independently Published on Amazon.com
  - https://www.amazon.com/dp/B08KJSGTB4/ref=cm_sw_em_r_mt_dp_3RFHFbGK3PMJG
- **Skop, Ahna R**, Kurt, E., Marks, C. (2020) Genetic Reflections: A Coloring Book. Independently published on BLURB (digital version of the book).
  - https://www.blurb.com/b/10191979

Publications (Non-Refereed Articles)

- Gnazzo, M and **Skop, AR** (2017). "What is the connection between cell division and neurodegenerative disease?" *Atlas of Science*, 2017-07-28. http://atlasofscience.org/what-is-the-connection-between-cell-division-and-neurodegenerative-disease/
- **Skop, AR** (2016). "Dr. Skop goes to Washington" GSA Genes to Genomes Blog. 2016-05-18. http://genestogenomes.org/dr-skop-goes-to-washington/
- Chu, D. and **Skop, AR** (2015). The Beauty and Humor of the Worm", GSA Genes to Genomes Blog. 2015-07-07. http://genestogenomes.org/the-beautyand-humor-of-the-worm/

Publications (Chapters in Books)

- **Skop, AR** (2016). Figure 24-9: The Midbody during Cytokinesis. Becker's World of the Cell (9th edition). Boston: Pearson ISBN 978032193425.
- **Skop, AR** (2008). Textbook image: "Dividing CHO cells", an image that appeared in Science 305:61, 2004, Fig 1a, showing the microtubule-containing midbodies between dividing CHO cells, in Cell And Molecular Biology, by Gerald Karp, 5th edition.

Publications (Websites)

- Kurt, E., Blaszczyk, S., Chu, D., **Skop, AR (2021)**, Lab Culture Recipes, **https://www.labculturerecipes.com/**
- **Skop, AR** & Kurt, E. (2020). "Genetic Reflections: A coloring book interactive and virtual workshop", https://skoplab.weebly.com/genetic-reflections.html
- Olukoga, OK, Morse, K., **Skop, AR** (2017). STEM diversity network website (2015-present). Sloan Foundation Supported (2015-2017); UW-Madison Provost Office supported (2016-present). Built and curate this campus web resource: https://stemdiversity.wisc.edu

Invited Keynote Presentations

(55 keynote talks:) *these are campus, conference or public talks on my science, art, science education & scicom, unless noted

- American of Medical Illustrators (AMI.org) national conference,"Too creative for science?', keynote (8/01/2026)
- University of Edinburgh, "Too creative for science?', Outreach keynote (5/30/2024)
- University of Iowa, MCB retreat keynote speaker, "The curious story of the midbody remnant", Iowa City, IA (4/19/24)
- Biology Leadership Conference sponsored by Pearson, "The curious story of the midbody remnant", Tucson, AZ (4/13/24)
- Emory University, Cell Biology Retreat, "The curious story of the midbody remnant", Host: David Katz, Atlanta, GA (10/12/23) (*science keynote)
- 2023 International Conference of Advanced Imaging in Medicine, "Too creative for science?", Host: Huabei Jiang, Chongqing, China (7/28-29/23)
- University of Washington, Seattle, "Lessons in persistence", Host: Dr. Barbara Wakimoto (11/16/2022)
- Xavier University of Louisiana, "Too creative for science?', Host: Dr. Michelle Boissiere (9/15/2022)
- Stem Advocacy Institute, "Too creative for science?" , ZOOM, Host Dr. Fanuel Muindi (4/17/2021)
- Syracuse University, "Too creative for science? ", ZOOM, **Named lectureship:** Norma Slepecky Lecture (4/16/2021)
- Pewaukee High school, "The midbody", ZOOM, (4/12/2021)
- NCECA (Ceramics) National Conference, "Too creative for science?", ZOOM (3/19/21)
- Haverford College, "Too creative for science?", ZOOM, Host Dr. Amy Cooke (11/18/2020).
- Kansas State University, "Too creative for science?", ZOOM, grad. student invited, Special SciComm Month Keynote (11/16/2020).
- University of Utah, "Too creative for science?", ZOOM, Host, Dr. Gillian Stanfield & the Univ. of Utah SACNAS chapter (10/30/2020).

- Weill Cornell Medical School, "Too creative for science?", ZOOM, Host, Dr. Marcus Lambert (Asst. Dean of Diversity & Student Life) (04/15/2020).
- Wisconsin Institutes of Discovery (WID), "Too creative for science?", Public open house even for investors, Madison, WI. (02/12/2020).
- Lawrence University, "Too creative for science?", Appleton, WI (11/11/2019).
- University of Minnesota, "Too creative for science?", Minneapolis, MN (10/03/2019).
- ASCB Cellulart, Univ of Toldeo, "Too creative for science?", Toldeo, OH (09/27/2019).
- Rutgers Zimmerli Art Museum, "Too creative for science?", New Brunswick, NJ (09/17/2019).
- University of Michigan IRACDA conference, "Too creative for science?, Ann Arbor, MI (07/02/2019).
- Pacific Northwest Society for Cell Biology Meeting, "Too creative for science?, Friday Harbor, WA (03/21/2019).
- UW-Madison Plant Pathology Graduate Student Seminar Series, "Too creative for science?, Madison, WI (11/09/2018).
- Stowers Institute, Big Ideas Keynote Lecture, "Too creative for science?", Kansas City, Missouri; https://youtu.be/Dn1WGlDDlkw (10/30/2018).
- University of Toronto, Graduate Retreat Keynote, "Too creative for science?",Toronto, Canada (09/25/2018).
- UC-San Diego, IRACDA Retreat Keynote, "Too creative for science?", La Jolla, CA (09/06/2018).
- ASPB Keynote Lecture, "Too creative for science?, Montreal, Canada (07/15/2018).
- Highpoint University, Art science "Too creative for science?", Highpoint, NC (04/21/2018).
- MIT and Univ of Massachusetts-Boston (joint invite) keynote on art and science, "Too creative for science?", Boston, MA (10/27/2017).
- Mount Desert Island Biological Laboratory, Science Cafe, "Too creative for science?", Bar Harbor, ME (08/21/2017).
- Wednesday Night at the Lab, "Too creative for science?", Madison, WI (03/29/2017).
- UW-Madison Advising Conference, Keynote Speaker, "Creating Inclusive Learning Environments", Madison, WI (03/01/2017).
- Women in STEM conference, Keynote Speaker, Madison Science Museum, "Too creative for science?", Madison, WI (11/5/2016).
- Outstanding Women in Science series, Keynote, University of Alabama-Birmingham, "Too creative for science?", Birmingham (11/1/2016).
- Cal State University-Northridge, MARC/RISE keynote speaker, “Too creative for science?” Northridge, CA (10/6/2016).
- UW-Madison Postdoctoral Association Symposium, Keynote speaker, Madison, WI (09/20/2016).
- NY Institute of Technology, Keynote speaker at SOURCE event, “The mystery and beauty of cell division”, NYC (04/15/2015).
- Northeastern Illinois University, Keynote speaker at MARC program, “Too creative for science?”, Chicago, IL (11/19/2015).
- UC-Boulder, Signaling Cellular Regulation Training Program (NIH), career speaker, “Too creative for science?”, Boulder, CO (12/1/2015).
- Ana G. Mendez University System, Pre-College Symposium, Keynote, “Too creative for science?”, San Juan, PR (05/16/2015).
- University of Hawaii-Manoa, Keynote (Campus Diversity Meeting/SACNAS), "Too creative for science?", Honolulu, Hawaii (04/18/2015).
- Wright State, Public Keynote speaker, “Too creative for science?”, Dayton, OH (03/30/2015).
- UNC Distinguished Lecture, IMSD Research Symposium, student-invited speaker, "Too creative for science?", Chapel Hill, NC (11/6/2014).
- SANCAS meeting Keynote, “Too creative for science”, https://www.youtube.com/watch?v=VehDRxTCW-4, Los Angeles, CA (10/15/2014).
- Wisconsin Science Festival, Lecture on creativity in science, Madison, WI (09/23/2011).
- NYU-Abu Dhabi, Distinguished Lecture Series, speaker, “Too creative for science?”, Abu Dhabi, UAE (12/5/2011).
- New Media Consortium (NMC) Conference, Keynote Speaker, “Too creative for science?”, sponsored by Apple & Adobe (06/14/2011).
- Children’s Hospital of Philadelphia, "Genetically an artist: How the arts influenced my career in science", keynote speaker at National Postdoc Appreciation Week, Philadelphia, PA (09/20/2010).
- Bascom Hill Society Showcase Lecture on Art and Science, UW-Madison Arboretum, Madison, WI (7/22/2008).
- College of St. Benedict’s, Commencement Speech on Art and Science, St. Cloud, MN (5/10/2008).

Invited Academic Research Presentations

95 seminars; *these are research talks at academic institutions or scientific conferences

- Lehigh University, "One cell divides into three things?: The curious story of the midbody remnant", (11/19/26)
- EMBO Organelle Dynamics in Health and disease (Edinburgh, Scotland), "Midbody Remnants Define a Post-Mitotic Signaling System that Encodes and Transmits Cell Identity", 10/11/2026
- i3S (Instituto de Investigação e Inovação em Saúde da Universidade do Porto), "One cell divides into three things?: The curious story of the midbody remnant", (06/29/26), Host: Helder Maiato
- University of Michigan, "One cell divides into three things?: The curious story of the midbody remnant", (02/13/26), Student invited speaker
- Univ of Nebraska, "One cell divides into three things?: The curious story of the midbody remnant", (11/8/25), Host: Mike Hermann
- Precision Cancer Genomics in Human Health Conference: "Midbody remnants are unique translating EV biomarkers for cancer diagnostics and tissue-specific RNA profiling", (9/18/25), Invited Speaker
- Univ. of Pennsylvania, "One cell divides into three things?: The curious story of the midbody remnant" (9/8/25), Host: Student invited
- Emory University, ""One cell divides into three things?: The curious story of the midbody remnant" (9/4/25), Host: Student invited, Taste of Science Public Talk
- International C. elegans Conference, "Lost in Translation No More: Midbodies as Hubs of RNA Activity and Large Extracellular Vesicle Biogenesis", (7/1/25), Invited Speaker
- International SDB Meeting, "Unveiling the significance of Midbody Remnats: A novel class of translating EVs", (6/19/25): Invited Speaker
- UC-Santa Cruz, One cell divides into three things?: The curious story of the midbody remnant", (6/13/25), Host: Jordan Ward
- Univ. of Maryland: One cell divides into three things?: The curious story of the midbody remnant" (3/6/2025), Host: Eric Haag
- Vanderbilt Univ., TN, "One cell divides into three things?: The curious story of the midbody remnant" (11/25/24), Host: Kathy Gould
- National Institute for Science Teaching (NIST), "Making science accessible through Art" (11/22/24), Host: Univ of Iowa
- UW-Madison Biotech Center, "One cell divides into three things?: The curious story of the midbody remnant" (11/07/24), Host: Charles Konsistke
- University of North Carolina-Greensboro, NC, "One cell divides into three things?: The curious story of the midbody remnant" (10/25/24), HBCU
- UW-Madison McArdle, "One cell divides into three things?: The curious story of the midbody remnant" (10/11/24), Host: Dick Burgess
- UW-Madison, CRB, "One cell divides into three things?: The curious story of the midbody remnant" (09/25/24), Host: Deneen Wellik
- Dagstuhl Seminar, Germany "The art and science of cell division" (7/23/2024)
- FASEB RNA localization and Local Translation meeting, Melbourne, FL. "The midbody and midbody remnant are assembly sites for RNA and localized translation", (7/8/2024)
- University of Cambridge, UK, "The curious story of the midbody remnant", Host: Paolo D'Avino (6/3/24)
- University of Edinburgh, "The curious story of the midbody remnant", Host: Bill Earnshaw (5/30/24)
- Rockville Science Center, "The curious story of the midbody remnant", (5/14/24)
- VIZBI conference, "The midbody is a novel translating RNA-based organelle necessary for cell-cell communication & Tactile mitosis" (3/14/24)
- ASCB, "The midbody is a novel translating RNA-based organelle necessary for cell-cell communication" (12/2/23)
- XULA, "One cell divides into three things? --The curious story of the midbody" (11/9/23)

- Burroughs Welcome, ENFOLD conference on science and art, "How does art benefit science and university programs that bring them together?", (9/21/23)
- University of Toronto, "One cell divides into three things? --The curious story of the midbody" (10/20/23)
- Wednesday Night at the Lab: "One cell divides into three things? --The curious story of the midbody" (5/10/23)
- ASCB, "Using Art to make Science more Accessible". Science Art Subgroup Session speaker. (12/03/2022)
- University of Washington, Seattle. Genomics & Biology joint talk. "Too creative for science?" (11/16/22)
- SACNAS, "Using art to make science more accessible", (10/29/22)
- Gordon Research Conferences, Cell Polarity Signaling: "The midbody is an actively translating RNP granule", (6-3-22)
- Western Washington University, "The midbody is an actively translating RNP granule", (5-18-22)
- University of Washington-Seattle, "The midbody is an actively translating RNP granule", (**Named Lectureship: Bornstein Lecture)**(5-10-22)
- CSHL: Symposium Celebrating the life of Dr. Sydney Brenner, "The science and art of C. elegans" (3/24/22)
- University of Southern Illinois, "The midbody is an actively translating RNP granule", (12/03/2021).
- University of Puerto Rico-Rio Piedras, "The midbody as an actively translating RNP granule", (11/23/2021).
- University of Michigan, "The midbody as an actively translating RNP granule", (10/13/2021).
- Harvard University, "The midbody as an actively translating RNP granule", ZOOM. (**Named Lectureship:** Jocelyn Spragg Lecture) (5/3/2021).
- Yale University, "The midbody as an actively translating RNP granule", ZOOM. (Valerie Horsley, host) (4/28/2021).
- Syracuse University, "The midbody as an actively translating RNP granule", ZOOM. (**Named Lectureship:** Normal Slepecky Lecture) (4/19/2021).
- UCLA, "The midbody as an actively translating RNP granule", ZOOM. (Tracey Johnson, host) (12/17/2020).
- University of Delaware, "The midbody as an actively translating RNP granule", ZOOM. (Jia Song, host) (10/05/2020).
- UW-Madison RNA Maxi Group, "The midbody as an actively translating RNP granule", Madison, WI (02/11/2020).
- ASCB/EMBO 2019, "The midbody as an actively translating RNP granule", Washington, DC (12/09/2019).
- University of Wisconsin-Madison, McArdle Seminar Series, "The midbody as a translating RNP granule", Madison, WI (12/04/2019).
- University of Minnesota, "The midbody as a translating RNP granule", Minneapolis, MN (10/03/2019).
- University of Wisconsin-Madison, Genetics Colloquium, "The midbody as a translating RNP granule", Madison, WI (09/18/2019).
- Rutgers University, "The midbody as a translating RNP granule", New Brunswick, NJ (09/16/2019).
- University of Wisconsin-Milwaukee, "The midbody as a translating RNP granule", Milwaukee, WI (09/13/2019).
- EMBO 2019 Aneuploidy Workshop, "The midbody as a translating RNP granule", Cascais, Portugal (05/13/2019).
- Pacific Northwest Society for Cell Biology Meeting, "The midbody as a translating RNP granule", Friday Harbor, WA (03/21/2019).
- ASCB/EMBO 2018, Midbody session, "The midbody as a RNP granule", San Diego, CA (12/08/2018).
- Stowers Institute, "What is the connection between cell division and neurodegenerative disease?", Kansas City, Missouri (10/31/2018).
- University of Toronto, "What is the connection between cell division and neurodegenerative disease?",Toronto, Canada (09/24/2018).
- UC-San Diego, Medical School, "What is the connection between cell division and neurodegenerative disease?", La Jolla, CA (09/07/2018).
- Highpoint University, "What is the connection between cell division and neurodegenerative disease?",Highpoint, NC (04/20/2018).
- Northwestern University, "What is the connection between cell division and neurodegenerative disease?",Chicago, IL (02/14/2018).
- Univ of Massachusetts-Boston, "What is the connection between cell division and neurodegenerative disease?", Boston, MA (10/28/2017).
- San Francisco State University, "What is the connection between cell division and neurodegenerative disease?", San Francisco (09/21/2017).
- UW-Madison, Genetics Colloquium, "What is the connection between cell division and neurodegenerative disease?", Madison (09/6/2017).
- Mount Desert Island Biological Laboratory, "What is the connection between cell division and neurodegenerative disease?" (08/21/2017).
- 21st International C. elegans meeting, “The role of ATX-2 in cytokinesis”, parallel speaker, UCLA (06/23/2017).
- University of Oregon-Eugene, “The mystery and beauty of cell division”, Eugene, OR (05/30/2017).
- University of Alabama at Birmingham, Biochemistry Department, "The mystery and beauty of cell division", Birmingham, AL (11/1/2016).
- Iowa State University, GDCB Department Seminar, “The mystery and beauty of cell division?”, Ames, IA (09/14/2016).
- UC-Boulder, MCDB, “The mystery and beauty of cell division”, Boulder, CO (12/1/2015).
- Ithaca College, Invited speaker, “The mystery and beauty of cell division”, Ithaca, NY (10/2/2015).
- SUNY Upstate, Invited speaker, “The mystery and beauty of cell division”, Syracuse, NY (09/30/2015).
- Washington State University-Pullman, Invited speaker, “The mystery and beauty of cell division”, Pullman, Washington (09/3/2015).
- Wright State, Biology Department, seminar, “The mystery and beauty of cell division”, Dayton, OH (03/30/2015).
- ASCB: The mechanics of cell division session: “Profiling the metaphase spindle proteome reveals OSTD-1, a N-glycosylation protein, as playing a role in cytokinesis and ER morphology” San Francisco, CA (12/10/2014).
- UC-Davis Invited Speaker, "Unraveling the secrets of asymmetric cell division", Davis, CA (11/14/2013).
- Chicago Cytoskeleton Invited Speaker, "Cell asymmetry and cell division in C. elegans embryos", Chicago (03/15/2013).
- McPherson Eye Research Institute, "Cell division in C. elegans embryos", Madison, WI (03/12/2013).
- Michigan Tech, Invited Speaker, "Cell division in C. elegans embryos", Houghton, MI (03/1/2013).
- New York University, Invited Speaker, “Cell asymmetry and cell division in C. elegans embryos”, NYC, NY (04/23/2012).
- University League Invited Speaker, “They mystery and beauty of cell division?", Madison, WI (03/15/2012).
- NYU-Abu Dhabi, “How membrane trafficking contributes to cell polarity and cytokinesis”, Abu Dhabi, UAE (12/6/2011).
- New Mexico State University, Department of Biology, "Cell division in C. elegans embryos". Las Cruces, NM (11/15/2011).
- New Mexico State University, Department of Biology "The beauty of cell division in C. elegans", Las Cruces, New Mexico (11/9/2010).
- SDB Meeting, invited speaker-cell polarity: "Role of dynamin in cytokinesis and cell asymmetry", Albuquerque, NM (08/2010).
- University of Colorado-Boulder, Dept. of Molecular, Cell and Developmental Biology. "The beauty of cell division", Boulder, CO (4/1/2010).
- New Mexico State University, Department of Biology, "The beauty of cell division", Las Cruces, NM (10/21/2009).
- Exciting Biologies: Biology in Balance Meeting, Sponsored by Cell, "Role of Dynamin in cell asymmetry", Buenos Aires, Argentina (10/9/2009).
- Gordon Research Conference: Motile & Contractile Systems, "Role of Dynamin in cell asymmetry", New London, NH (7/13/2009).
- University of Utah, Dept. of Biology,"Role of dynamin in cell asymmetry", Salt Lake City, UT (10/12/2008).
- New York University, Dept. of Biology & Dev. Genetics of the NYU Sackler Institute, "Role of Dynamin in cell asymmetry", NYC (8/12/2008).
- Bascom Hill Society Showcase Lecture, UW-Madison,"The beauty of cell division", Madison, WI (7/22/2008).
- University of California-Santa Cruz, Molecular Cell & Developmental Biology, "The beauty of cell division", Santa Cruz, CA (5/5/2008).
- Visualizing Science Meeting, UW Madison, "The beauty of cell division", Madison, WI (2/8/2008).
- Mechanics and Control of Cytokinesis, "The beauty of cell division: the midbody proteome", Edinburgh, UK (1/11/2008).
- Hong Kong University of Science and Technology, "The beauty of cell division: the midbody proteome", Hong Kong, China (5/30/2007).
- Peking University, Beijing, China, School of Life Sciences, "The beauty of cell division: the midbody proteome", Beijing, China (5/22/2007).
- National Institute of Biological Sciences (NIBS), "The beauty of cell division: the midbody proteome", Beijing, China, (5/21/2007).
- SACNAS meeting, Molecular Motors and Cellular Movements, "The beauty of cell division: the midbody proteome", Tampa, FL (10/2006).

- Vanderbilt University, Dept of Biochemistry, "The beauty of cell division: the midbody proteome", Nashville, Tennessee (09/2006).
- University of Wisconsin-Whitewater, Dept. of Biology, "The beauty of cell division: the midbody proteome", Whitewater, WI (03/24/2006).
- RIKEN Center for Developmental Biology,"The beauty of cell division: the midbody proteome", Kobe, Japan (10/2005).
- Japanese Biochemical Society, invited symposium speaker, "The beauty of cell division: the midbody proteome", Kobe, Japan (10/2005).
- Queens College, Dept. of Biology, "The beauty of cell division: the midbody proteome", Flushing, NY (09/2005).
- ASCB Meeting, Cytokinesis Mini-symposia, speaker, "Midbody Proteome", San Francisco, CA (12/2002).
- West Coast Worm Meeting, Genomics Session, "Midbody Proteome", UCSD, San Diego, CA (06/2002).
- BARC (Bay Area Research on the Cytoskeleton),"Midbody Proteome", UCSF, San Francisco, CA (01/2001).
- Midwest Worm Meeting, University of Minnesota, speaker, Minneapolis, MN (07/2000).
- ASCB Meeting, Cytokinesis Subgroup Meeting, speaker, San Francisco, CA (12/1999).
- International C. elegans Meeting, Meiosis, Mitosis and Cell Division Session,speaker, UCLA (06/1999).
- ASCB Meeting, Cytoskeleton in Polarity and Development Mini-symposia, speaker, Washington, DC (12/1998).
- Midwest C. elegans Meeting, University of Chicago, speaker, Chicago, IL (06/1998).
- ASCB Meeting, Dynein/Dynactin subgroup meeting, speaker, Washington, DC (12/1997).

Educational Activities: Talks and Posters

- Oak Hills HIgh School talk: "Too creative for science?" (Cincinnati, OH) 3/26/25
- Highland High school AP bio visit (Fort Thomas, KY), 3/25/25
- Woodfill Elementary visit (Fort Thomas, KY), 3/25/25
- Johnson Elementary Visit (Fort Thomas, KY), 3/24/25
- Wednesday night at the Lab, "The curious story of the midbody" (5/10/23)
- Hartford High School, "Too creative for science?" (2/15/23)
- Gen 522: "Slide Evolution", invited by Dr. Nicole Perna (2022-26)
- Gen 522: "Slide Evolution", invited by Dr. Chris Hittinger 2022-26)
- ASCB online Workshop, "Creating Inclusive Learning Environments" (3/9/22)
- McMillan Podcast: (1/19/22)
- Deeper Dive Podcast: (1/18/22)
- Western Washington State Biology 487 Course speaker, Dr. Lina Dahlberg (host) (05/15/2020).
- RERIC, Wisconsin Rural Teachers Conference, “Creative Inclusive Learning Environments”, keynote, Madison, WI (11/15/2019).
- HHMI Teaching Fellow Faculty Mentor, mentored Benjamin Minkoff and Sarah Neuman (Fall-attended course with students, Springstudents teach with me) (2014-15).
- Delta Program, Instructional Materials Development course, UW Madison, taken with Genetics Ph.D. student David Berry (2009).

Educational Activities: Science Education

- HHMI Teaching Fellow Faculty Mentor, mentored Benjamin Minkoff and Sarah Neuman (2014-15).
- Delta Program, Instructional Materials Development course, UW Madison, taken with Genetics Ph.D. student David Berry (2009).

Educational Activities: Workshops

- DaVinci Science Center (Allentown, PA), Invited STEM panelist (11/18/2026)
- John Carroll University, Scholarship Class Speaker, Host: Dean Mike Martin (11/28/2022)
- NSF Advance Luncheon Speaker, University of Washington, Seattle. Host: Joyce Yen (10/16/22)
- SACNAS webinar: "Broader impacts: The art and science of "Genetic Reflections (5/5/2021)
- ASCB, Workshop speaker on "Organizing Inclusive & Effective Science Outreach" (12/04/2020).
- Inclusive SciComm, SACNAS conference (10/31/2019).
- Native Perspectives in Genomics, SACNAS conference (11/1/2019).
- National Academy of Sciences, Sackler Colloquium, "The science of science communication III", "Incentives for Scientists and Engineers to Communicate about their Research", Washington, DC. (11/17/2017).
- UW-Madison Biochemistry Dept., Workshop on Science Communication, Madison, WI (10/4/2017).
- Bioquest/Qubes 2017 Summer Workshop, “Creative Inclusive Learning Environments”, keynote, Lansing, MI (07/25/2017).
- The 21st International C. elegans Meeting, "Active learning in genomics", poster, UCLA, Los Angeles, CA (06/25/2017).
- UW-Madison Advising conference, Keynote Speaker, "Creating Inclusive Learning Environments", Madison, WI (03/1/2017).
- ASCB Meeting, Teaching Workshop, "No lectures here: How an active and problem-based learning classroom in genomics transformed the confidence, creativity and communication skills of all students", San Francisco, CA (12/3/2016).
- iBiology Google Hangout, “Getting the most out of a conference”, Webinar (7/21/2016).
- UW-Madison Teaching and Learning Symposium invited speaker, “No Lectures Here: How an active and problem-based learning classroom in genomics transformed the confidence creativity and communication skills of all students”, Madison, WI (5/20/2015).
- SACNAS meeting, 2011, “Value of Doing a postdoc” & “NSF Broader Impacts”, San Jose, CA (10/2011).
- ASCB meeting, poster presentation on teaching, (faculty, postdocs, graduate students), San Francisco, CA (12/2010).
- NSF Career Awardees Meeting, invited teaching presentation, (faculty, government), Washington, DC (06/2010).
- NIH Postdoctoral Mentoring Meeting, invited panel speaker (postdocs), Washington, DC (3/11/2010).

Educational Activities: Mentoring (Postdocs & Senior Scientists)

- Dr. Randall D. Dahn, senior scientist. Working on the midbody RNP granule (2017-2021)
- Dr. Sungjin Park, postdoc. Working on the midbody RNP granule (2018-20). Current: Aussie Suzuki's Lab: Senior Scientist
- Dr. Yuji Nakayama, postdoc, Worked on the role of DYN-1 in cell polarity; Current: Full Professor at Kyoto Pharmaceutical University (2006-08).

Educational Activities: Mentoring (Graduate Students)

Mentor to 11 graduate students, 2 URM

- Dantong Liily Zhu, Ph.D student in CMB, Thesis: "The role of MBRs in neuronal development" (joint mentor with Justin Wolter)
- *Dr. Megan Gnazzo, Ph.D. student in Genetics: Thesis title: 'The role of ATX-2 in cell division in C. elegans".
  - **Current position:** Biotech, Boston, MA **Publications**: 3 published (1 in preparation) (2011-17).
- *Dr. Jennifer Gilbert, Ph.D.student in Genetics, Midbody transcriptome.
  - **Current position:** student in Barak Blum's Lab **Publications:** (1 in preparation) (2016-17).
- Kathryn VandenHeuvel, M.S.in Genetics, MS project: Midbody Transcriptome.
  - **Current position:** business **Publications:** (1 in preparation) (2015-16).
- Angela Johnson, MFA (art student in the lab), MA show title: "Translation" Installed on 2nd floor of UW-Genetics Dept.,.
  - **Current position:** scientific artist and Jame Waltrous Gallery curator **Art shows:** 2 (2014-16).
- Dr. Kelly Pittman, Ph.D., received Ph.D. in CMB (lab of Laura Knoll): The role of PAR proteins in cell division.
  - **Current position:** postdoc at Duke in Dennis Ko's lab **Publications:** 1 (2009-11).
- Dr. Mary Kate Bonner, Ph.D. student in Genetics, Thesis title: "The metaphase spindle proteome".
  - **Current position:** postdoc at NIH in Alex Kelley's lab **Publications:** 3 (2006-13).
- Dr. Jessica Shivas, Ph.D. student in Genetics, Thesis title: "The role of dynamin in cell polarity in C. elegans".
  - **Current position:** Confocal application specialist at Leica Microsystems **Publications:** 3 (2006-12).
- Dr. Erkang Ai, Ph.D., student in Genetics, Thesis title: "The role of RACK-1 in cytokinesis in C. elegans".
  - **Current position:** Associate Attorney at Hogan Lovells in Philadelphia, PA; **Publications:** 3 (2004-10).
- Arun Kumaran, M.S., Masters in Biotechnology, Project Assistant: "Midbody proteomic database" (2005).
- Leonard George, M.S., Masters in Biotechnology, Project Assistant: "Midbody proteome analysis".
  - **Current position:** CEO Cquensys in Madison, WI (2004-05).
- Dr. Justin Schleede, received his Ph.D. in Genetics (lab of Seth Blair), Dynamin in cell polarity.
  - **Current position:** Technical Director at LabCorp, Clinical Cytogenetcist **Publications:** 1 (2004-2006).

Educational Activities: Mentoring (Undergraduate Students)

Mentor to 51 undergraduates, 18 URM

- Sydney Bayer, undergraduate lab assistant (2026-present)
- Alex Cohen, undergraduate lab assistant (2026-present)
- Miranda Thompson, undergraduate lab assistant (2026-present)
- Hans Moll, undergraduate lab assistant (2025-present)
- Hannah Pisarski, work study student (2024-present)
- *Citizen Milton, work study student (2023-present)
- Ada Krasinsky, undergrad lab assistant (2023-present)
- Courtney Youngchild, undergrad lab assistant (2023-2024)
- Alina McIntyre, undergrad lab assistant (2022-2025); **Publications:** 1
- *Ashley-Grace Dureke, work study student (2021-2023); **Publications:** 1
- Gabrielle Whisler, science art student collaboration with Jan Huisken's lab (2021)
- Elif Kurt, lab assistant, **Publications:** 3(2018-2021).
- Caitlin Marks, lab assistant, **Publications:** 1 (2018-19).
- *Kai Fowlkes, Undergrad lab assistant, POSSE student (2018).
- Celia Glime, undergraduate lab assistant & artist, working with Angela Johnson on NSF broader impacts project (2017).
- *Andrew Geng, undergrad work study student & lab assistant (2017-18).
- *Alex Villarreal, undergrad work study student, POSSE student, **Publications:** 3 (2013-17).
- *Izaiah Clinton, work study student (2016).
- *Nahin Cano, lab assistant (2016).
- *Idanis Sanchez, REU, summer research, from University of Puerto Rico-Ponce (2016).
- Anna-Lisa Doebley, undergraduate research collaborator with Shawn Ahmed (UNC); **Publications**: 1 (2015).
- Amanda Dlugi, REU, summer research, from Alverno College (2015).
- *Olushola Kemi Olukoga, undergrad work study students, **Publications:** 1 (in process) (2015-16).
- *Elisa Sanchez, REU, summer research, from NMSU (2014).
- *Prenicia Gant, REU, summer research, from Grambling State Univ. (2014).
- *Amy Ochola, undergrad work study student, POSSE student (2013-15).
- Mikayla Simons, Undergrad student, 152 student (2013-16).
- Josh Bartlett, undergraduate student hourly (2012-14).
- *Florencia Visconti, REU summer research, from NMSU (2012).
- *Farinoosh Dadrass, undergraduate student hourly (2012-13).
- Chris Hutson, undergraduate student hourly (2011-12).
- Chanel Matsunami Govreau, undergraduate performance art student collaborator (Guggenheim Fellow) (2011).
- Yamini Karandikar, undergraduate research assistant (2011).
- *Eddie Dominguez, REU summer research, from New Mexico State University, **Publications:** 1 (2011).
- *Clayton Gorman, REU summer research, from New Mexico State University (2010).
- Curtis Bartosz, undergraduate research and student hourly (2009-10).
- *Kristin Waukau, REU summer minority undergraduate research, from the College of the Menominee Nation, Keshena, WI (2009).
- *Candice Teschner, undergraduate student hourly (2009).
- Melissa Li, undergraduate research assistant (2008-11).
- A.J. Becker, undergraduate student hourly (2008-10).
- Ryan Ruf, undergraduate research and student hourly (2007-09).
- *Brittney Bailey, undergraduate student hourly (2007-09).
- Bo Hwa Han, undergraduate research on cytokinesis and student hourly, **Publications:** 1 (2007-08).
- Jen Kulkoski, undergraduate research on cell polarity and Biology 152 student, **Publications:** 1 (2006-08).

- Thomas Dietz, undergraduate research on RACK-1 and cytokinesis, Biology 152 student (2006-07).
- Amanda Amodeo, undergraduate research on DYN-1 in cytokinesis, Assistant Professor at Dartmouth College (2005-08).
- Megan Missaggia, undergraduate research on cytokinesis and student hourly (2005-07).
- Yunsik Kang, undergraduate research on DYN-1 in cytokinesis, postdoc at OHSU in the lab of Marc Freeman (2005-06).
- Christie Maier, undergraduate research on RACK-1 in cytokinesis (2005-06).
- Amy Thurber, from Kenyon College, summer undergraduate research (2005).

Educational Activities: Mentoring (High School Students; Summer)

Mentor to 5 high school students, 2 URM

- Anna Granieroo, Middleton High School, (2017).
- Maddie Pritzl, Sun Prairie High School (2014).
- *Randi Schuman, PEOPLE program, summer minority high school student, from Lac du Flambeau, WI (2009).
- *Jasmine Staples, summer minority high school student volunteer, from Philadelphia, PA (2009).
- Amanda Savagian, summer high school student volunteer (2008).

Educational Activities: Mentoring (Lab Managers/Technicians/Research Interns)

Mentor to 5 lab managers, 1 URM

- Elizabeth Torr, lab manager/Research specialist I (2024-present)
- Maggie Forrestal, technician (2004-05)
- Daniel Poole, lab manager (2005-12)
- Lan Qin, research associate (2013-14)
- Amanda Hulfachor, research associate (2014-15)
- Eva Uhlemann, research associate (2014-15)
- *Edwin Suarez-Zayas (2021-22)
- Smit Patel, research intern (2021-23)
- Elizabeth Torr, research specialist (2022-present)
- Liily Dantong Zhu (2023-present)
- Sophie Lusty (2024-present)

Educational Activities: Mentoring (Thesis Committees)

Mentor to 41 graduate students, 14 URM

- *Sofia Romero Ferrufino (CMB, Sherer Lab) (2018-2024)
- *Raisa Nunez (Genetics) (2019-2021)
- *Justin Billy (CMB, Kalejta Lab) (2022-2024)
- Eamon Winden (Genetics, Schwartz Lab) (2016-2024)
- Ben Hall (Genetics, Donohue Lab) (2019-2024)
- Angel Banuelos (Geneetics, Grinblat Lab) (2022-2023)
- Angela Kita (CMB; Bement Lab) (2013).
- Sydney Lesko (CMB: Sherer Lab) (2020).
- Lori Scardino (CMB; Sondel Lab) (2012).
- Randee Young (Genetics: Sun Lab) (2016+).
- Sihui Yang (CMB: Wildonger Lab) (2015-20).
- *Jaime Cordova (Genetics: Perna Lab) (2018+).
- Erica Macke (Genetics: Ikeda Lab) (2015-2018).
- Annette Dean (Genetics: Taylor Lab) (2016-20).
- *Ariel Cyrus (Genetics: Grinblat Lab) (2014-16).
- *Elaine Welch (Genetics; Pelegri Lab) (2012-17).
- *Andrew Hasley (Genetics: Pelegri Lab) (2011-16).
- Bharti Solanki (Genetics; Pelegri Lab) (2009-14).
- Lori O'Brien (Biochemistry; Weise Lab) (2008-13).
- April Peterson (Genetics: Payseur Lab) (2020-21).
- *Nicholas Santistevan (Genetics: Grinblat Lab) (2018+).
- *Kassi Krocker (Genetics: Boekhoff-Falk Lab) (2017-19).
- Sarang Brahma (MCP; Burkhard Lab)(Masters) (2014-15).
- Steven Nolan (Life Sciences Communication: Reaves) (Masters) (2015).
- *Scott Bosley (MCP: Suzuki Lab) (Left with as Masters due to COVID) (2020).
- Thomas Lenz (CMB; Loeb Lab) (2011-16).
- Tim Loveless (CMB; Hardin Lab) (2011).
- Natalya Morsci (CMB; Barr Lab) (2012-14).
- *Raisa Nunez (Genetics: Brow Lab) (2019+).
- Ben Hall (Genetics: Donohue Lab) (2019+).
- Xiaoyan Ge (Genetics; Pelegri Lab) (2011).
- *Renee Engle (Genetics; Barr Lab) (2005-10).
- *Anji Trujillo (Chemistry: Coon Lab) (2017+).
- Allison Lynch (Genetics; Hardin Lab) (2011-15).
- Eamon Winden (Genetics: Schwartz Lab) (2016-2023).
- Celeste Eno (Genetics: Pelegri Lab) (2012-16).
- Aaron Lomax (Genetics; Vierstra Lab) (2013-17).
- Christina Scribano (MCP: Weaver Lab) (2016-20).
- Haining Zhang (Genetics; White Lab) (2006-11).
- Stacey Kigar (Pharmacology; Bement Lab) (2012).
- *Andy Madrid (Neuroscience: Alisch Lab) (2016-21).
- *Ed Suarez-Zayes (Neuroscience: Gomez Lab) (2016+).
- Robb Stankey (Genetics; Vierstra Lab) (2014-16).
- Marcus Miller (Genetics; Vierstra Lab) (2012-15).
- Caitlin Short (Neuroscience: Gomez Lab) (2016-20).
- Yunsik Kang (Genetics: Bashirullah Lab) (2012-16).

Service Activities: Departmental

- Undergraduate Curriculum Committee (co-Chair), 2024-Present
- Postdoctoral Committee (co-Chair), 2023-present
- Communications Committee 2020-2025
- Diversity Affairs Committee (Chair), 2008-2020
- Undergraduate Advisor, 2004-2015
- Confocal Facility Manager, 2008-2012
- 2010 Centennial Committee, 2008-2010

- Undergraduate Curriculum Committee, 2007-2015, 2019-Present
- Admissions Committee, 2005-2017
- Prelim Committee, 2004-2006

Service Activities: Historically underrepresented recruitment & retention

- SACNAS chapter advisor, 2014-2024
- BioHouse Speaker, 9/26/2017
- Faculty-Student Mentoring Program, 2017-2020
- WISE Learning Community, Keynote Speaker, 10/25/2016
- POSSE student visits to labs during SOAR, 2013-2014
- New Mexico State University Recruitment visits with the MARC program with Dean Dorothy Sanchez, 2009-2015
- Historically underrepresented student recruitment, SACNAS, AISES, ABRCMS, 2004-2020
- AISES chapter advisor, 2007-2008
- Menominee High School Lab visits, 2005-2007

Service Activities: Campus

- *Diversity Liaisons Project (DLP): Provost for Diversity Office; contributed to the establishment of this program with the Provost (2019-22).
- *UW-Madison, Provost's Committee on Faculty Diversity (2018-19).
- *UW-Madison, Campus-wide Diversity & Climate Committee (2017-20).
- UW-Madison, Sophomore Research Fellowships Committee (2017).
- *STEM diversity network Twitter: @uwstemdiversity curator (2015+).
- *STEM diversity network: Established and built website for campus community, http://stemdiversity.wisc.edu (2015+).
- *Chair of CALS Equity and Diversity Committee (2014-16).
- UW-Madison Arts Institute, (Executive Committee) (2015+).
- *CALS Equity and Diversity Committee member (2012-16).
- CALS Curriculum Committee (2013-14).
- *STEM Posse Advisory Board, member (2011-15).
- *Bouchet Society Section Committee (2010-15).
- *SciMed GRS (Science and Medicine Graduate Research Scholars) Faculty Advisory Committee (2008-19).
- *CALS Undergraduate Recruitment and Retention Committee (2008).
- Wisconsin Institute of Discovery: Creating Collisions between Humanities, Arts and Sciences Committee (2008-09).
- Eye Research Institute, Education Committee (2008-09).
- MicroExplorers, outreach, team member (2007-12).
- Graduate Program in Cellular and Molecular Biology (CMB) alumni relations (Chair) (2007-09).
- CALS trip to China with Chancellor Wiley, Met with campus leaders throughout China (2007).
- CALS Study Abroad Committee (2006-08).
- Molecular Biology Major Advisory Committee and undergrad advisor (2006-16).

Service Activities: National & State

- *HHMI Driving Change selection committee (2022)
- *CZI Diversity program, selection committee (2022-2024)
- *NIH Diversity Program Consortium Oversight Committee (2018-21).
- NIH Study Section Reviewer, NIGMS NCSD study section, permanent member (2014-18).
- *ASCB Minority Affairs Committee (elected) (2017-20).
- Wisconsin Science Museum, Board member & branding/logo design https://wisconsinsciencemuseum.org (2016+).
- *SACNAS, National Nominations Committee (2016-18).
- *SACNAS, National Newsletter Committee (2014-16).
- Science Policy Trip on behalf of the Genetics Society of America (GSA) with Washington, D.C. policy makers about NSF research, poster about science and art http://genestogenomes.org/c-elegans-cell-division-art-helps-policymakers-see-nsf/ (4/2016).
- NOVA Education Advisory Board (2015-17).
- *SACNAS, National Board Member Elect (2014-16).
- Women in Cell Biology Committee Career Discussion and Mentoring Roundtables (2010-16).
- NSF Study Section Reviewer, Cell division and Cytokinesis (MCB) (2010).
- *Wisconsin Task Force on Arts and Creativity in Education, statewide task force member (http://www.creative.wisconsin.gov/) (2008-09).
- Wisconsin Region National Science Competition for High School Students, invited keynote speaker (2008).

Service Activities: Journal Reviewer

- *Science*
- *Nature*
- *Nature Cell Biology*
- *PNAS*
- *Genesis*
- *Current Biology*
- *Developmental Cell*
- *Nature Cell Biology*
- *Molecular Biology of the Cell (MBoC)*
- *Briefings in Functional Genomics and Proteomics*
- *PLoS One*
- *PlosBiology*
- *PlosGenetics*
- *PLoS Genetics*
- *Genes & Development*
- *Frontiers in Cell Biology*
- *Journal of Cell Science (JCS)*
- *Journal of Cell Biology (JCB)*
- *Development*

- *Current Opinion in Cell Biology*, *European Journal of Cell Biology (EJCB)*

Service Activities: Editor Positions

- ***Molecular Biology of the Cell* (MBoC):** Associate Editor (Jan 1st, 2020+).

Service Activities: International Meeting Organization

Head organizer of 6 International meetings, Session chair of 4 mini-symposiums

- Organizer, International *C. elegans* meeting, UC-Davis, Davis, CA, (2025)
- Organizer, International *C. elegans* meeting, Glasgow, Scotland, (June 23rd-28th, 2023)
- Head Organizer-Midwest SDB meeting, Madison, WI (Nov 11-13th, 2022), Raised over $45,000 in sponsorship money!
- Organizing Committee- International *C. elegans* Development Meeting, Madison (2022).
- Organizing Committee-21st International C. elegans Meeting, UCLA (2019).
- Organizing Committee-C. elegans Development, Cell biology & Gene Expression, Barcelona, Spain (2018).
- Organizing Committee-20th International C. elegans Meeting, UCLA (2017).
- Local Organizer-C. elegans Topic Meeting: Aging & Stress (2016).
- Organizing Committee-20th International C. elegans Meeting, UCLA (2015).
- ASCB Meeting, "The mechanics of cell division", session chair, Philadelphia, PA (2014).
- Head Co-organizer-4th biennial C. elegans Topic Meeting: Development, Nara, Japan (2014).
- Organizing Committee-19th International C. elegans Meeting, UCLA (2013).
- Head Organizer-3rd biennial C. elegans Topic Meeting: Development (2012).
- Organizing Committee-18th International C. elegans Meeting, UCLA (2011).
- Local Organizer-3rd biennial C. elegans Topic Meeting: Neurobiology (2010).
- Head Organizer-2nd biennial C. elegans Topic Meeting: Development & Evolution (2008).
- Local Organizer-2nd biennial C. elegans Topic Meeting: Neurobiology (2008).
- Local Organizer-2nd biennial C. elegans Topic Meeting: Aging & Stress (2008).
- Head Organizer-1st biennial C. elegans Topic Meeting: Development & Evolution (2006).
- Head Organizer-1st biennial C. elegans Topic Meeting: Neurobiology (2006).
- 15th biennial International C. elegans Conference, Cell Biology, Plenary session co-chair (2005).
- ASCB Meeting, Cytokinesis and Cellularization Mini-symposium, invited co-chair (2004).
- ASCB Meeting, Mechanisms of Cytokinesis in Diverse Organisms, session chair and organizer (2000).

Outreach Activities (Below are Highlighted Efforts)

See also Invited Keynote talks on science and art

- DaVinci Science Center (Allentown, PA), Invited Women In STEM panelist (11/18/2026)
- Girl scouts of Wisconsin (Badgerland) virtual workshop on the "Genetic Reflections: A coloring book" (11/08/2020).
- "Genetic Reflections, A coloring Book", a companion book to our science art piece. Authors: Skop, Kurt & Marks (10/06/2020).
- "Genetic Reflections", 40ft science art piece installed in the UW-Madison Biotech Center, NSF funded (2018).
- Science Policy Trip on behalf of the Genetics Society of America (GSA) with Washington, D.C. policy makers about NSF research, poster about science and broader impacts: http://genestogenomes.org/c-elegans-cell-division-art-helps-policymakers-see-nsf/ (4/2016).
- "Cool Science Images" digital scientific art show at UW-Madison, part of The Why Files, curatorial committee (2012-17).
- Scientific art show at the Ebling Library, curatorial committee (3/2011).
- "Science & Art" traveling scientific art show, by the Science Museum of Minnesota for the Arkansas Discovery Network, consultant, NSF funded (http://www.arkansasdiscoverynetwork.org/rent_science_and_art/) (2009+).
- "Tiny: Art From Microscopes at UW-Madison" scientific art show at the Dane County Regional Airport, curatorial committee (2009).
- Art show at College of Saint Benedict, St. Joseph, MN, artist (5/2008).
- Southern Graphics Council collaboration with Jonas Angelet, art work inspired by cell division (2006).
- "Dynamic Elements"-a multi-media concert by Mark Hetzler and Katrin Talbot, consultant, C. elegans movies were used (2006).
- International C. elegans Art Show founder and organizer, at the biennial International C. elegans Meeting http://genestogenomes.org/twenty-years-of-the-worm-art-show/ (1997+).
- Logo design for the biennial International C. elegans Meeting abstract book and website (1997-18).

Press: International

- "These tiny worms account for at least 4 Nobel Prizes", NYTimes, October 17th, 2024, https://www.nytimes.com/2024/10/17/science/nobel-prizes-caenorhabditis-elegans.html. (NYTimes mentions my Worm Art Show)
- "IF/THEN Ambassadors Reach Million of Girls..." Front page of AAAS.org, December 16th, 2021, https://www.aaas.org/news/ifthenr-ambassadors-reach-millions-girls-sharing-scientists-human-side-and-wonders-science (12/16/2021)
- Meet the STEM superstars, BRAVA Magazine, November 4th, 2019, https://bravamagazine.com/stem-superstars-madison/ (11/04/2019).
- Make STEM Education More Welcoming to Underrepresented Minorities, *The Scientist*, June 1st, 2019, https://www.thescientist.com/careers/making-stem-education-more-welcoming-to-underrepresented-minorities-65910 (06/01/2019).
- "Worm Art at #Worm17", Genes to Genomes, Genetics Society of America blog, http://genestogenomes.org/worm-art-at-worm17/ (7/12/2017).
- "#Worm17 Love", Genes to Genomes, Genetics Society of America blog, http://genestogenomes.org/worm17-love/ (6/26/2017).
- "Twenty years of the Worm Art Show", Genes to Genomes, Genetics Society of America blog, http://genestogenomes.org/twenty-yearsof-the-worm-art-show/ (Highlight about how the worm art show started) (4/28/2017).
- "New online network emphasizes diversity, supports STEM, WisBusiness.com, http://www.wisbusiness.com/index.iml?Article=386310 (4/12/2017).

- "UW-Madison launches resource hub for STEM diversity, Campus Technology, https://campustechnology.com/articles/2017/04/11/uwmadison-launches-resource-hub-for-stem-diversity.aspx (4/11/2017).
- "UW-Madison launches STEM Diversity Network", Wisconsin State Journal, http://host.madison.com/wsj/news/local/education/university/uw-madison-launches-stem-diversity-network/article_86999adee7df-5e6b-b394-822df55223f8.html (4/10/2017).
- "UW-Madison launches STEM Diversity Network", UW-Madison campus news, http://news.wisc.edu/uw-madison-launches-stemdiversity-network/ (4/10/2017).
- "Translation Art Show", Angela Johnson's MFA work, YouTube Video, https://youtu.be/IcW71YmUOhY 4/2015
- "One man's trash…", The Scientist, Dec. 1st, 2013, https://www.the-scientist.com/features/one-mans-trash-3834 (12/1/2013).
- "Intriguing Art from the University of Wisconsin-Madison", Smithsonianmag.com, http://www.smithsonianmag.com/sciencenature/intriguing-science-art-from-the-university-of-wisconsin-26859088/ (4/19/2013).
- Press Release "Forward under 40 awards honor 12 young UW-Madison alumni" http://www.news.wisc.edu/17749 (4/2010).
- "Ahna Skop: In Search of the Midbody", Apple.com, highlight of my work (2009).
- "Tiny World, Big Art in Madison" on Art Beat blog http://www.pbs.org/newshour/art/tiny-world-big-art-in-madison/ (8/2009).
- "Teeny Tiny Art" by Claire O'Neill on The Picture Show http://www.npr.org/sections/pictureshow/2009/05/teeny_tiny_art.html (5/2009).
- "Seeing Things" by April Fulton on Shots: NPR's Health Blog http://www.npr.org/sections/health-shots/2009/05/seeing_things.html (5/2009).
- "Tiny art goes on display in Madison airport", USAtoday.com http://www.usatoday.com/travel/flights/2009-04-20-madison-airportart_N.htm (4/2009).
- "Art of the very, very small to debut at Dane County Airport" by Terry Devitt, UW-Madison news. http://www.news.wisc.edu/16566 (4/2009).
- "Macroscopic" in News & Notes in On Wisconsin http://onwisconsin.uwalumni.com/on_campus/macroscopic/ (2009).
- "Balancing Life and Science" by Jennifer Evans in The Scientist http://www.the-scientist.com/?articles.view/articleNo/27031/title/Balancing-Life-and-Science/ (1/2009).
- "A scientist trapped in an artist's body" by Margaret Guthrie in The Scientist http://www.the-scientist.com/?articles.view/articleNo/26737/title/A-scientist-trapped-in-an-artist-s-body/ (9/2008).
- "Alumna Profile: Ahna Skop, Ph.D. '94" in the BIO@SU newsletter from the Department of Biology at Syracuse University (7/2008).
- "With cell as muse, art fuels scientist's quest" by Terry Devitt, UW-Madison News http://www.news.wisc.edu/15115 (4/2008).
- "CSB commencement set for May 10" http://www.csbsju.edu/news/csb_commencement08.htm (4/2008).
- Remarkable Women in Science, AAAS http://sciencecareers.sciencemag.org/tools_tips/outreach/loreal_wis/l_oreal_women_in_science_booklet (2/2008).
- "Following the Image" by Anne Sasso in Science Careers online, a career profile http://sciencecareers.sciencemag.org/career_magazine/previous_issues/articles/2008_01_18/caredit.a0800010 (1/2008).
- "Emerging Scholars: Class of 2008" in Diverse: Issues In Higher Education http://diverseeducation.com/article/10483 (1/2008).
- "Beginning Scientists Receive Presidential Awards" http://www.nsf.gov/news/news_summ.jsp?cntn_id=110588 (2007).
- "Two UW research scientists honored" by Heather LaRoi in the Wisconsin State Journal http://host.madison.com/news/local/article_194012c3-4b0f-5644-9c3a-cd3191b405c4.html (11/1/2007).
- "Got MudPIT?" by James Netterwald in Drug Discovery & Development http://www.dddmag.com/MudPIT-combines-LC-and-MS.aspx (1/2007).
- "Proteomics power to the people!" by John Yates III in The Scientist http://www.the-scientist.com/?articles.view/articleNo/16195/title/Proteomics-Power-to-the-People-/ (1/2005).
- "Cytokinesis: A good place to start" by Arianne Heinrichs in Nature Reviews Molecular Cell Biology http://www.nature.com/nrm/journal/v5/n7/full/nrm1440.html (7/2004).
- "How to Get the Hang of Proteomics as a Cell Biologist" in ProteoMonitor http://www.genomeweb.com/proteomics/ahna-skop-how-gethang-proteomics-cell-biologist (7/2004).
- "UW-Madison Scientists Find A Key To Cell Division" in Science Daily http://www.sciencedaily.com/releases/2004/05/040527234509.htm (5/2004).

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