

Jaye C. Gardiner, Ph.D.

American Cancer Society Fellow
Emerald Foundation Black In Cancer Fellow
NIGMS MOSAIC K99/R00 Fellow
Cell Signaling and Microenvironment
Fox Chase Cancer Center
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Last updated: February 3rd, 2025

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EDUCATION

Formal Education

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| Doctor of Philosophy University of Wisconsin-Madison <i>Madison, WI</i> Department of Oncology and the Institute for Molecular Virology Laboratory of Dr. Nathan M. Sherer <u>Dissertation</u> : Pushing the Envelope: How HIV Regulates Dual Roles for Viral ENV Glycoproteins in Cell-Cell Adhesion and Membrane Fusion | May 2017 |
| Bachelor of Arts Macalester College <i>Saint Paul, MN</i> Major: Biology Minors: Chemistry, Linguistics, and Japanese [audited] | May 2011 |

Supplemental Coursework & Certification

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| Chromatin, Epigenetics, and Gene Expression Cold Spring Harbor Laboratory <i>Long Island, NY</i> | 25 Jul - 14 Aug 2022 |
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RESEARCH EXPERIENCE

Independent Research

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| Incoming Assistant Professor , Tufts University | Sep 2025 |
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Postdoctoral Research

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| Assistant Research Professor , Laboratory of Dr. Edna Cukierman As part of my Black In Cancer and NIGMS MOSAIC K99 funded work, my project focuses on the aberrant gene expression that occurs in constitutively activated fibroblasts and how this is epigenetically regulated in cancer and fibrosis. | Dec 2022 – Present |
| Postdoctoral Research Associate , Laboratory of Dr. Edna Cukierman Fox Chase Cancer Center, <i>Philadelphia, PA</i> My T32 training grant and American Cancer Society supported postdoctoral work aims to understand fibroblasts within the pancreatic cancer tumor microenvironment and the downstream signaling induced by the pathological expression of the neuronal protein Netrin G1 (<i>manuscript in preparation</i>). | Aug 2017 – Dec 2022 |

Graduate Research

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| Graduate Research Assistant , Laboratory of Dr. Nathan Sherer University of Wisconsin, <i>Madison, WI</i> McArdle Laboratory for Cancer Research and the Institute for Molecular Virology | Dec 2011 – Jul 2017 |
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For my NSF GRFP sponsored dissertation, I developed a two-color, long term, live cell imaging platform to visualize virus-induced cell-cell contacts and used this platform to study how human immunodeficiency virus (HIV-1) assembles there.

Undergraduate Research

Undergraduate Research Assistant, Laboratory of Dr. Lisa Peterson Jun 2009 – Aug 2010
University of Minnesota, *Minneapolis, MN*
Carcinogenesis and Chemoprevention

The goal of my project was to determine whether there were differences between genotypic variants of a DNA repair protein, O⁶-alkylguanine DNA alkyltransferase (AGT), in repairing alkylated DNA. These adducts arise from the metabolic activation of the tobacco specific nicotine-derived nitrosamine ketone (NNK) which if left unrepaired can lead to mutations in critical tumor suppressor or proto-oncogenes.

Research in Biochemistry Course, Professor Kathryn Splan Jan – May 2010
Macalester College, *Saint Paul, MN*

In groups of two, my partner and I worked to determine the amino acid residues that provide metal ion specificity in the GolS metal binding protein in *Salmonella*.

Human Physiology Laboratory Course, Professor Lin Aanonsen Jan – May 2010
Macalester College, *Saint Paul, MN*

In groups of four, my team was tasked with determining the neurochemical changes of the L1 Cell Adhesion Molecule (L1CAM) in a chronic inflammatory mouse model.

FUNDING

Postdoctoral Funding

Uplifting Athletes Young Investigator Draft 2025
Funding agency: Uplifting Athletes and Pancreatic Cancer Cure Foundation
Funding amount: \$20,000
Role: Principal investigator
Project title: Cutting the engine to pancreatic cancer's tumor microenvironment

Maximizing Opportunities for Scientific and Academic Independent Careers (MOSAIC) Postdoctoral Career Transition Award to Promote Diversity K99/R00 2023 – 2028
Funding agency: National Institute of General Medical Sciences
Grant number: 1K99GM148819-01
Funding amount: \$250,000 for K99 phase
Role: Principal investigator
Project title: Elucidating the epigenetic regulation of extracellular matrix and virus-induced fibroblast activation

Emerald Foundation, Inc. | Black In Cancer Postdoctoral Fellowship 2022 – 2025
Funding agency: Emerald Foundation, Inc.
Grant number: N/A
Funding amount: \$230,000
Role: Principal investigator
Project title: Investigating the role of Brg1-dependent epigenetic regulation on PDAC fibroblast pro-tumorigenic functions

American Cancer Society Postdoctoral Fellowship 2019 – 2022
Funding agency: American Cancer Society
Grant number: PF-18-218-01-CSM
Funding amount: \$163,500
Role: Postdoctoral fellow
Project title: Harnessing pancreatic cancer's stroma's tumor suppressive functions

NIH T32 Cancer Biology Postdoctoral Training Grant 2017 – 2019
Funding agency: National Cancer Institute
Grant number: T32CA009035

Role: Postdoctoral fellow
Project title: Determining a role for pancreatic cancer-associated fibroblasts
homotypic cell-cell interactions in pancreatic cancer progression

Graduate Funding

Science and Medicine Graduate Research Scholars Advanced Opportunity Fellowship 2016 – 2017
Funding Agency: State of Wisconsin; Wisconsin Alumni Research Foundation (WARF)
Role: Predoctoral fellow - PhD Candidate

National Science Foundation Graduate Research Fellowship 2013 – 2016
Funding agency: National Science Foundation
Grant number: DGE-1256259
Funding amount: \$110,000
Role: Predoctoral fellow
Project title: Retroviral exploitation of actin signaling during cell-cell transmission

Science and Medicine Graduate Research Scholars Advanced Opportunity Fellowship 2011 – 2012
Funding agency: State of Wisconsin; Wisconsin Alumni Research Foundation (WARF)
Role: Predoctoral fellow

Undergraduate Funding

Louis Stokes North Star STEM Alliance Undergraduate Research Grant 2009
Funding agency: National Science Foundation, Louis Stokes Alliance for Minority
Participation (LSAMP) program
Funding amount: \$4,000
Role: Undergraduate fellow

Outreach Funding

AAAS IF/THEN She Can Change the World Grant 2020 – 2021
Funding agency: Lyda Hill Philanthropies; AAAS
Funding amount: \$30,000
Role: Co-Investigator
Project title: In Their Eyes: Building Scientific Knowledge, Environmental Stewardship, and Science Identity
through Innovative STEAM Programming

Gaining STEAM! Crowdfunding Campaign 15 Feb – 17 Mar 2021
Funding amount: \$12,804
Role: Co-Organizer
Project title: Gaining STEAM! Illuminating Research Through Art - [link](#)

HONORS & AWARDS

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| Uplifting Athletes Young Investigator | 2025 |
| Washington University in St. Louis Compass Scholar | 2024 |
| Huntsman Cancer Institute Rising Star in Cancer Biology | 2023 |
| Duke Next Generation Leader | 2023 |
| AAAS Early Career Public Engagement Award | 2023 |
| ASCB Merton Bernfield Memorial Award | 2022 |
| Fred Hutchinson Cancer Center Dr. Eddie Méndez Scholar | 2022 |
| National Cancer Institute Travel Award | 2022 |
| Fox Chase Cancer Center Cancer Epigenetics Institute Travel Award | 2022 |
| Temple University Health Equity Leadership and Social Justice Award | 2022 |
| ASCB Accomplishing Career Transitions Fellow | 2021 – 2023 |
| Macalester College Young Alumni Award | 2021 |
| Leading Edge Fellow | 2020 |
| Alaska Robotics Comics Camp Selected Participant | 2020 |

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| AAAS IF/THEN Ambassador | 2019 – 2021 |
| HHMI Hanna H. Gray Fellows Finalist | 2018 |
| Mindlin Foundation Science Communication Prize | 2018 |
| Morgridge Entrepreneurial Bootcamp Selected Participant | 2017 |
| 5th Annual ComSciCon Flagship Meeting Selected Participant (50/1071 spots) | 2017 |
| ASCB Minority Affairs Committee Travel Grant | 2016, 2017, 2018, 2019 |
| Denice D. Denton Emerging Leaders Selected Student Participant | 2016 |
| Ford Foundation Dissertation Fellowship, <i>Honorable Mention</i> | 2016 |
| UW-Madison Graduate Peer Mentor Award, <i>Honorable Mention</i> | 2016 |
| ASV Graduate Student Travel Grant | 2014, 2015 |
| UW-Madison Vilas Conference Travel Award | 2014, 2015 |
| Best Poster, “Wisc-e-Sota” UMN-UW Virology Training Grant Symposium | 2014 |
| Dr. J. Abiodun Elegbede Cancer Research Award | 2014 |
| HHMI Teaching Fellows Program | 2013 – 2014 |
| Cream City Medical Society Legacy Scholarship | 2012 |
| Best Poster, Science and Medicine Graduate Research Scholars (SciMed GRS) Research Symposium | 2011 |
| Biological Sciences Scholar Award | 2011 |
| Life Sciences Summer Undergraduate Research Program | 2010 |
| National Science and Mathematics Access to Retain Talent (SMART) Grant | 2010 |
| North Star STEM Alliance Undergraduate Research Grant | 2009 |
| Macalester College Grant | 2007 – 2011 |
| Catherine Lealtad Scholarship | 2007 – 2011 |
| Academic Competitiveness Grant | 2007 |

PUBLICATIONS

Peer-reviewed manuscripts

Caromile, L.A., Jha, A. **Gardiner, J.C.**, Dilek, O., Ohi, R., Ligon, L. (2024). How to construct and deliver an elevator pitch: Guidelines for the research scientist. *BMC Proceedings*. <https://doi.org/10.1186/s12919-024-00312-2>

Wynns, S. Meaders, C., **Gardiner, J.C.**, Nigam, S., & Harris, J. (2024). Picture a Scientist - Diverse Role Models in STEM. *Frontiers for Young Minds*. In press.

Meaders, C., **Gardiner, J.C.**, Wynns, S., Nigam, S., & Harris, J. (2023). A comic-based conservation lesson plan diversifies middle school student conceptions of scientists. *Journal of Research in STEM Education*, 9(1), 20-45. doi.org/10.51355/jstem.2023.127

Raghavan, K.S., Francescone, R. Franco-Barraza, J. **Gardiner, J.C.**, Vendramini-Costa, D.B., Luong, T. Pourmani, N., Andren, A., Kurimchak, A., Ogier, C., Duncan, J.S., Lyssiotis, C.A., Languino, L.R., Cukierman, E. (2022). NetrinG1+ cancer-associated fibroblasts generate unique extracellular vesicles that support the survival of pancreatic cancer cells under nutritional stress. *Cancer Research Communications*. doi.org/10.1158/2767-9764.CRC-21-0147

Alexander, J.I., Vendramini-Costa, D.B., Francescone, R. Luong, T., Franco-Barraza, J., Shah N., **Gardiner, J.C.**, Nicolas, E., Raghavan, K.S., Cukierman, E. (2021). Palladin isoforms 3 and 4 regulate cancer-associated fibroblast pro-tumor functions in pancreatic ductal adenocarcinoma. *Scientific Reports* [doi:10.1038/s41598-021-82937-3](https://doi.org/10.1038/s41598-021-82937-3)

Jarvis, C.M., Zwick, D.B., Grim, J.C., Murshid Alam, M., Prost, L.R. **Gardiner, J.C.**, Park, S., Zimdars, L.L., Sherer, N.M., Kiessling, L.L. (2019). Antigen Structure Affects Cellular Routing Through DC-SIGN. *Proceedings of the National Academy of Sciences*. doi: 10.1073/pnas.1820165116

Watters, K.E., Inankur, B., **Gardiner, J.C.**, Warrick, J., Sherer, N.M., Yin, J. Palmenberg, A.C. (2017). Differential Disruption of Nucleoplasmic Trafficking by Rhinovirus 2A Proteases. *Journal of Virology*. doi:10.1128/JVI.02472-16

Gardiner, J.C., Mauer, E.J., Sherer, N.M. (2016). HIV-1 Gag, Envelope, and Extracellular Determinants Cooperate to Regulate the Stability and Turnover of Virological Synapses. *Journal of Virology*. doi:10.1128/JVI.00600-16

Manuscripts submitted, under review, or pre-printed

Vendramini-Costa, D.B., Francescone, R., Franco-Barraza, J., Luong, T., Graves, M., Musa de Aquino, A., Steele, N., Gardiner, J.C., dos Santos, S.A.A., Ogier, C., Malloy, E., Borghaei, L., Martinez, E., Zhigarev, D.I., Tan, Y., Lee, H., Zhou, Y., Cai, K.Q., Klein-Szanto, A.J., Wang, H., Andrade, M., Dunbrack, R.L., Campbell, K., Cukierman, E. Netrin G1 Ligand is a new stromal immunomodulator that promotes pancreatic cancer. (2024) bioRxiv 2024.05.15.594354; doi: <https://doi.org/10.1101/2024.05.15.594354>

Franco-Barraza J., Luong T., Wong J.K., Raghavan K., Handorf E., Vendramini-Costa D.B., Francescone R., Gardiner J.C., Meyer J.E., Cukierman E. Pulsed low-dose-rate radiation (PLDR) reduces the tumor-promoting responses induced by conventional chemoradiation in pancreatic cancer-associated fibroblasts. (2024) bioRxiv 2024.01.13.575510; doi: <https://doi.org/10.1101/2024.01.13.575510>

Ogier, C., Charles Solomon, A.M., Lu, Z., Recoules, L., Klochkova, A., Gabitova-Cornell, L., Bayarmagnai, B., Restifo, D., Surumbayeva, A., Vendramini-Costa, D.B., Deneka, A., Francescone, R., Lilly, A.C., Sipman, A., **Gardiner, J.C.**, Luong, T., Franco-Barraza, J., Ibeme, N., Cai, Q., Einarson, M.B., Nicolas, E., Efimov, A., Megill, E., Snyder, N.W., Bousquet, C., Cros, J., Zhou, Y., Golemis, E.A., Gligorijevic, B., Soboloff, J., Fuchs, S.Y., Cukierman, E., Astsurov, A. (2023) Trogocytosis of cancer-associated fibroblasts promotes pancreatic cancer growth and immune suppression via phospholipid scramblase anoctamin 6 (ANO6). *bioRxiv* 2023.09.15.557802 (2023) doi:10.1101/2023.09.15.557802.

Book Chapters

Gardiner, J.C., Cukierman, E. (2022). Meaningful connections: Interrogating the role of physical fibroblast cell-cell communication in cancer. *Advances in Cancer Research. Academic Press*. Book Chapter. doi: 10.1016/bs.acr.2022.01.004

Gardiner, J.C., Raghavan, K., Alexander, J.I., Franco-Barraza, J., Cukierman, E. (2018) Fibroblastic Cell-Derived Extracellular Matrices: A cell Culturing System to Model Key Aspects of the Tumor Microenvironment. *Royal Society for Chemistry*. Book Chapter. doi.org/10.1039/9781788015998-00305

Books

JKX Comics, *Gaining STEAM!: Illuminating Research Through Art* (self-pub., Mixam Printing, 2021)

Editorials

JKX Comics (**Gardiner, J.C.**, Montgomery, K.M., Tran, K.A.). (2022, May 19). The power of comics and art as a vehicle for science. [Editorial] *BioTechniques*.

Ashad-Bishop, K. C., **Gardiner, J. C.**, Makins, K., Twum, D. (2020, October 13). Cancer Doesn't See Color, but the Pipeline Does [Editorial]. *Nature Research Cancer Community*.

INVITED TALKS

Speaker

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| Converging on Cancer Symposium @ Tufts University | 1 Nov 2024 |
| Bryn Mawr College Biology Seminar Series | 7 Oct 2024 |
| 2024 Leading Edge Fellows Retreat, Flash Talk | 25 Aug 2024 |
| University of Wisconsin-Madison Cancer Biology Seminar Series | 3 Apr 2024 |
| Cornell University Biomedical Science Seminar Series | 14 Feb 2024 |
| Vanderbilt University Special Seminar | 30 Jan 2024 |
| Tufts University Biology Seminar Series | 19 Jan 2024 |
| UPMC Hillman Cancer Center Special Seminar | 29 Oct 2023 |
| Inaugural NSF/AAAS S-STEM Scholars Meeting Opening Keynote | 14 Sep 2023 |
| ASCB Science and Art Webinar Series | 13 Sep 2023 |
| 2023 Leading Edge Symposium, Alumni Flash Talk | 11 Jun 2023 |
| 2023 Duke Next Generation Leaders Symposium | 6 Jun 2023 |
| 2023 Rising Stars in Cancer Biology Symposium | 26 May 2023 |
| 2023 FCCC Cancer Epigenetics Institute Symposium | 2 Mar 2023 |
| Davidson College Diversity in STEM Scholar Series | 16 Feb 2023 |
| SF Girls' School Intro to STEM Careers Speaker Series | 25 Jan 2023 |
| 2022 Dr. Eddie Mendez Postdoctoral Symposium, Fred Hutch Cancer Center | 19 Sep 2022 |
| First Star National STEAM Academy Tech Talk | 28 Jul 2022 |
| 2022 Leading Edge Symposium | 13 Jul 2022 |
| Stepping Stone Scholars Career Speaker | 12 Jan 2022 |
| Research Impact Summit 2021 | 2 Sep 2021 |
| STEM-It-Yourself Series | 22 May 2021 |
| University of Houston-Downtown Emerging Voices in STEM Scholar Series | 30 Apr 2021 |
| Young Women In Biology Career Talk | 9 Apr 2019 |
| UW Carbone Community Advisory Board | 10 Mar 2021 |
| Houston Independent School District Lunch & Learn Series | 28 Jan 2021 |
| Monterey Peninsula College STEAM 2.0 Online Event <i>Joint presentation with Dr. Reyhaneh Maktoufi</i> | 24 Nov 2020 |
| University of Richmond Biology Department Scientist of Color Seminar Series | 2 Nov 2020 |
| Philadelphia Young Professionals of the American Cancer Society, Nerd Nite Philly | 3 Mar 2020 |

Panelist

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| American Society for Cell Biology, Cell Speak 2024: Diversifying your CellSpeak | 22 Oct 2024 |
| EquiSciTrack: Inclusive Paths to Academic Success - Teaching and DEI Statements | 19 Sep 2024 |
| Leading Edge Career Development Panel - Making Compelling Figures | 25 Aug 2024 |
| San Diego Comic Con, Arcane: Magic vs. Tech | 28 Jul 2024 |
| San Diego Comic Con, Dr. Evil or Scientists as Villains in Pop Culture | 23 Jul 2023 |
| Leading Edge Career Development Panel - Navigating your Postdoc | 14 Jun 2023 |
| Philadelphia Postdoc Preview - Dual Career Panel | 7 Feb 2023 |
| San Diego Comic Con, Representation Matters: Changing STEAM Culture to be a More Inclusive Space | 23 Jul 2022 |
| Elementary STEM Con & Beyond, Illustration in STEM | 9 Apr 2022 |
| University of Houston-Downtown, Diversity in STEM Face to Face Panel | 4 Mar 2022 |
| Union of Concerned Scientists Conversations: Science as Art | 22 Feb 2022 |

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| DaVinci Center Women in Science & Engineering (WISE) Forum | 12 Oct 2021 |
| STEM Noire 2021 Conference, Science Outreach and Representation | 26 Jun 2021 |
| ComSciConcepts, Combating COVID-19 within Black Communities | 2 Jun 2021 |
| Young Women in Bio - Southern California, Bio Influencers: Discover the Art in Science | 14 Apr 2021 |
| Penn Nursing Innovation Colloquium: Using Art and Comics for Better Health and Science Communication | 7 Apr 2021 |
| San Francisco State University Comics in the Classroom Discussion | 23 Jan 2021 |
| Girls in Science and Technology STEM Career Panel | 14 Nov 2020 |
| Wisc-e-Sota 8th Joint UMN-UW Virology Training Grant Symposium Career Development Panel | 22 Oct 2020 |
| University of Georgia Life Sciences Industry Day 2020 Virtual Conference | 25 Sept 2020 |
| University of Kentucky Careers in Science and Engineering | 29 Aug 2020 |
| STEMing while Black Part III: Women in STEM Edition | 22 Aug 2020 |
| STEMing while Black Part II: Lead by Example | 18 Jul 2020 |
| STEMing while Black Part I: You Asked, We Answered | 27 Jun 2020 |

Moderator

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| 2023 Collagen Gordon Conference Seminar Career Panel | 9 Jul 2023 |
| 2023 Leading Edge Symposium; Stem Cells, Developmental Biology and Cancer | 14 Jun 2023 |
| In Their Eyes: Conservation + Comics Student Poster Session | 3 Jun 2021 |
| 2020 Leading Edge Symposium, Cancer Biology Session | 18 Aug 2020 |
| 2019 ComSciCon Creative Storytelling Panel | 11 Jul 2019 |

Workshop Leader

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| Inclusive Science Communication Symposium Title: "Intersections of Identity and Science Communication: From A(rt) to Z(ine)" <i>Co-led with Dr. Shayle Matsuda</i> | 21 Oct 2023 |
| Summer Cancer Research Institute Title: "Communicating through science narratives" | 8 Jul 2022 |
| ComSciCon-Michigan 2021 Title: "Art resources for science communication" | 22 Aug 2021 |
| American Association for the Advancement of Science Annual Meeting Title: "Building your professional network as a woman of color in STEM" | 8 Feb 2021 |
| Echo Rivera's Blast Off to Stellar Slides Guest Workshop Title: "Zines and comics in science communication" | 20 Oct 2020 |
| Gaining STEAM!: Illuminating Science through Art Title: "From science stories to comics" | 22 Oct 2018 |

CONFERENCE PRESENTATIONS

Oral Presentations

Focus: Science

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| 2024 American Association for Cancer Research Tumor Microenvironment Meeting Lightning talk | 18 Nov 2024 |
| 2023 Collagen Gordon Research Conference Title: "Examining the unconventional role of Ang-Tie2 signaling in pancreatic CAF/ECM unit function" | 12 Jul 2023 |
| 2022 Cell Bio - An ASCB and EMBO Meeting | 4 Dec 2022 |

Title: "Bioinformatic analyses reveal a novel role of ANG-TEK signaling in PDAC cancer-associated fibroblasts" – BERNFIELD MEMORIAL AWARD TALK

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| 2022 Black in Cancer Conference | 10 Oct 2022 |
| Title: "How do you improve the outcome of a highly lethal cancer?" | |
| 2017 American Society for Virology Conference | 24 Jun 2017 |
| Title: "Non-Specific Interactions Between HIV-1 Gag and Envelope Proteins Regulate the Formation and Stability of Virological Synapses" | |
| 2015 American Society for Virology Conference | 11 Jul 2015 |
| Title: "Retroviral Infection Modulates Cell-Cell and Cell-Extracellular Matrix Interactions" | |
| 2015 Cold Spring Harbor Retroviruses Meeting | 22 May 2015 |
| Title: "Viral and Extracellular Determinants Regulate HIV-1 Virological Synapse Formation, Stabilization, and Turnover" | |
| 2014 American Society for Virology Conference | 23 Jun 2014 |
| Title: "Role of Env Cytoplasmic Tail Domain in HIV-1 Cell-to-Cell Transmission" | |

Focus: Education

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| 2022 STEAM Power: Imagining Tomorrow: Innovation with Heart | 17 Mar 2022 |
| Title: "Conservation + Comics: Innovative Ways to Teach STEM and Foster Science Identity" | |
| 2018 American Society for Cell Biology Conference | 9 Dec 2018 |
| Title: "Art and Science Collide!: Engaging Students with STEM-based Comics" | |
| 2018 National Science Teacher Association STEM Forum | 13 Jul 2018 |
| Title: "Art and Science Collide!: Engaging Students with STEM-based Comics" | |

Focus: Art

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| 2022 Cell Bio - An ASCB and EMBO Meeting | 3 Dec 2022 |
| Title: "Gaining STEAM! Illuminating research through art" | |
| 2021 Guild of Natural Science Illustrators - Virtual Visual SciComm Conference | 17 Jul 2021 |
| Title: "Passion meets purpose: STEM comics for all" | |

Poster Presentations

Focus: Science

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| 2024 AACR Special meeting: Tumor Microenvironment | 18 Nov 2024 |
| 2023 Collagen Gordon Research Conference | 10, 12 Jul 2023 |
| 2023 Collagen Gordon Research Seminar | 8 Jul 2023 |
| 2022 Cell Bio - An ASCB and EMBO Meeting | 5 Dec 2022 |
| 2019 American Society for Cell Biology Conference | 7 & 9 Dec 2019 |
| 2018 American Society for Cell Biology Conference | 8 & 10 Dec 2018 |
| 2017 American Society for Cell Biology Conference | 2 & 4 Dec 2017 |
| 2017 CSHL Biology of Cancer: Microenvironment and Metastasis Meeting | 11 Oct 2017 |
| 2016 American Society for Cell Biology Conference | 3 & 5 Dec 2016 |
| 2014 "Wisc-e-Sota" UMN-UW Virology Training Grant Symposium | 10 Oct 2014 |
| <u>BEST POSTER AWARD</u> | |
| 2012 SciMed GRS Research Symposium <u>BEST POSTER AWARD</u> | 26 Apr 2012 |
| 2010 Life Sciences Summer Undergraduate Research Program (LSSURP) Research Symposium | 14 Aug 2010 |
| 2010 North Star STEM Alliance Student Research Symposium | 30 Mar 2010 |
| 2009 Macalester College Undergraduate Research Symposium | 8 Oct 2009 |

Focus: Education

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| 2023 Science Forward: Towards Inclusive Excellence in Academia | 20 Mar 2023 |
| 2022 Cell Bio - An ASCB and EMBO Meeting | 4 Dec 2022 |
| 2021 Communicating the Future: Engaging the Public in Basic Science – SciPEP | 28 Jul 2021 |

Focus: Art

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| 2022 Cell Bio - An ASCB and EMBO Meeting | 4 Dec 2022 |
| 2021 Communicating the Future: Engaging the Public in Basic Science – SciPEP | 27 Jul 2021 |
| 2017 Communicating Science Conference (ComSciCon) Flagship Meeting | 24 Jun 2017 |

TEACHING & MENTORING EXPERIENCE

Teaching

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| Teen Research Internship Program (TRIP) Initiative Instructor , <i>Fox Chase Cancer Center</i> | Feb 2018 – Mar 2020 <i>COVID-19 interruption</i> |
| <ul style="list-style-type: none">Guided 50 stellar high school students from the Philadelphia area in designing and executing experiments to answer original questions of their own choosing, as well as learn how to analyze, interpret, and communicate their data.Developed and taught a science communication mini course within the program teaching students to create effective graphical representations of their independent research.Designed and produced symposium program booklets to highlight each student in the program and display the graphical abstracts they produced. | |
| PEER Program Workshop Instructor , <i>University of Tennessee-Knoxville</i> | 12-13 Aug 2015 |
| <ul style="list-style-type: none">Co-led a workshop for matriculating underrepresented graduate students at the University of Tennessee on effective methods of dissecting primary and popular press STEM articles. Workshop was based on a course taught at UW-Madison. | |
| Instructor of Record , <i>University of Wisconsin-Madison</i> | Fall 2014 |
| <ul style="list-style-type: none">Developed curricula for a new course teaching matriculating undergraduate students at the University of Wisconsin-Madison called “Secrets of Science: From the Lab to Popular Press”. The course targeted students with an interest in STEM to equip them with critical thinking, experimental design, and grant writing skill sets necessary for a career in STEM earlier in their educational careers.Independently taught, mentored, and managed the participating 17 students and 1 undergraduate peer mentor for the entire semester.Designed and graded all coursework and exams. | |
| Lab Preceptor for General Chemistry I and General Chemistry II , <i>Macalester College</i> | Sep 2008 – May 2011 |
| <ul style="list-style-type: none">Graded student pre-laboratory assignments.Organized and set up the weekly experiments.Mentored students in laboratory procedures, calculations, and data analysis. | |

Guest Lectures & Classroom Visits

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| Davidson College BIO161: Being Human in STEM | 16 Feb 2023 |
| Davidson College BIO111: Molecules, Genes, and Cells | 16 Feb 2023 |
| Green Run High School Innovation Lab Community Conversation Speaker | 4 Jun 2021 |
| Montgomery County Community College Guest Lecture | 1 Apr 2021 |
| University of Illinois-Chicago BIO196 Guest Lecture | 4 Mar 2021 |
| Roxborough High School Biotechnology Track Career Day | 8 Nov 2018 |

Mentoring

Visiting Scientist Research Mentor, Fox Chase Cancer Center

Apr – July 2023

- Miranda Burdiel-Herencia, *PhD student from Madrid, Spain in Dr. Inmaculada Ibanez de Caceres laboratory*

Life Science Communication (LSC) 640 Internship Mentor, University of Wisconsin- Madison

Spring 2019

- Leo Barolo

Science and Medicine Graduate Research Scholars (SciMed GRS) Peer Mentor, University of Wisconsin-Madison

Aug 2012 – Dec 2016

Mentored first year graduate students from historically marginalized and excluded backgrounds to facilitate their acclimation to Madison and graduate student life.

- Joshua Cruz, PhD
- Nadia Khan, PhD
- Mary Susan Lopez, PhD

Undergraduate Research Mentor, University of Wisconsin-Madison

- Eliah A. Gomez
- Eric J. Mauer

Jan 2014 – Dec 2015

Jun 2012 – May 2013

Louis Stokes Alliance for Minority Students Participation (LSAMP) Program Student Mentor, Macalester College

Sep 2010 – May 2011

Shadow Mentoring

To learn about what shadow mentoring is and its effects in academia, see [Davis-Reyes et al.](#)

- 2025 Informational interviews and application review
 - Met and advised prospective applicants for the Leading Edge program
 - Provided constructive feedback to 1 Leading Edge application
- 2024-2025 Tenure-Track Faculty Application Season
 - Reviewed and edited 2 teaching statements, 1 DEI statements, 5 research statements, and 3 cover letters
 - Listened and provided constructive feedback on 1 research seminar and 1 chalk talk
- 2024 Informational interviews and application review
 - Met and advised 2 prospective applicants for the Leading Edge program, and 1 prospective applicant for the NIH Pathway to Independence (K99/R00) grant
 - Edited and provided constructive feedback to 1 job application cover letter, 1 teaching program cover letter
- 2023-2024 Tenure-Track Faculty Application Season
 - Reviewed and edited 2 teaching statements, 2 DEI statements, 1 research statements, and 1 cover letter
- 2023 Informational interviews and application review
 - Reviewed and critiqued 1 K99 Candidate background statement, 1 F32 grant application, 1 F31 resubmission introduction
- 2021-2022 Tenure Track Faculty Application Season
 - Reviewed and edited 1 DEI statement
- 2020 grant application review
 - Edited and critiqued 1 NSF GRFP personal statement and 1 NSF GRFP proposal

SCIENCE COMMUNICATION & OUTREACH LEADERSHIP POSITIONS

JKX Comics, co-founder and contributor

Nov 2015 – Present

- Create educational comics on scientists and scientific topics to increase public science exposure, access, and literacy.
- Manage a 3-7 person team and mentor them in the comic making process.
- Identify funding sources and opportunities and develop application material.
- Curate our social media (@jkxcomics) presence on Twitter.

ComSciCon Leadership Team

Nov 2019 – Jun 2023

- Worked as part of a team to decide the structure and execution of the Communicating Science Conference (ComSciCon) organization.
- Programming Chair for 2021 ComSciCon Flagship meeting
- Lead social media strategist.

*Oct 2020 – Sep 2021
Nov 2019 – Jun 2020*

ComSciCon Flagship Programming Committee

Sep 2017 – Sep 2021

Oct 2020 – Sep 2021

- **2021 Chair**; Led the development of inclusive and anti-racist programming for the flagship ComSciCon meeting which targets graduate students and recent graduates from the US and Canada to explore careers and skills in science communication.; Managed and organized a 10-person team in conference planning.; Established an inclusive and welcoming (virtual) workspace.
- **2020 Vice-Chair**; Assisted chair in developing the first virtual conference.; Responsible for co-organizing “Zine and Comics in SciComm” workshop.; Moderated community Slack channel.
- **2019 organizer**; Responsible for co-organizing and moderating the “Creative Storytelling” panel and the science comedy workshop (led by Science Riot).
- **2018 organizer**; Responsible for co-organizing the “Creative Storytelling” panel and Write-a-thon workshop (an opportunity for participants to receive peer and expert feedback on a written science communication piece).

Sep 2019 – Jun 2020

Sep 2018 – Jul 2019

Sep 2017 – Jun 2018

In Their Eyes: Conservation + Comics Project

Oct 2019 – Jun 2021

- Co-created the teaching curricula for the project aligned to 6th grade NGSS standards
- Managed the designing and development of comics and trading cards class activity material
- Co-organized student virtual poster presentations

Black in Cancer Week Organizing Committee

Aug 2020 – Oct 2020

- Co-organized the inaugural Black in Cancer Week which ran from 11 – 17 Oct 2020.
- Shaped the programming for Tuesday, 13 Oct, #TheCancerPipeline day, which had a panel showcasing a variety of careers in the cancer space, panelists’ STEM journeys, and advice for trainees navigating the pipeline.
- Designed the logo and branding for #BlackInCancerWeek.
- Assisted in website design.
- Created all panel graphics and “Meet the Organizers” picture quotes for social media.

#UniqueScientists Team member

Jul 2019 – Mar 2020

on indefinite hiatus

- Curated the twitter account (@Also_AScientist) highlighting diverse scientists daily.
- Developed and constructed trading cards for throwback Thursday (#UniqueTBT) events and for school use.
- Designed media for social media (Instagram) use.

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|---|----------------------------|
| Gaining STEAM!: Illuminating Science through Art Program Organizer | Apr 2018 – Jul 2019 |
| <ul style="list-style-type: none"> Organized workshops for JKX Comics Gaining STEAM! Project. Developed material for the second workshop focused on using images in science and translating scientific stories about academic research into a comic storyboard. | |
| ComSciCon 2017 Flagship Meeting Participant (50/1071 spots available) | Jun 2017 |
| SciMed GRS Peer Mentoring Committee | Aug 2014 – Dec 2016 |
| <ul style="list-style-type: none"> Developed programming for SciMed GRS for the academic year to ensure the needs of participating first year underrepresented graduate students were met. Selected future committee members and mentors. | |
| Morgridge Institute for Research Outreach Experience Volunteer | Jan 2012 – Jul 2014 |
| Wisconsin Institute for Discovery – Town Center Saturday Science Assistant | Jan 2012 – Jul 2014 |
| Macalester Biology Club, co-founder and co-chair | Sep 2009 – May 2011 |
| Orientation Leader for incoming undergraduates | Aug 2009 |

CONSULTING

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|--|----------------------------|
| RCN UBE: Deepening and Expanding the Mission and Outcomes of the Re-Envisioning Culture Network (REC Network) | Sep 2023 – Present |
| NSF Funded project that focuses on building a network of diverse scholars that will discuss and strategize plausible solutions for the challenges with retaining Black undergraduate students in the Biological Sciences through graduate and professional career endeavors. (Award Number: 2217343) | |
| Black SciGirls: Investigating a Culturally Responsive PBS Media-enriched Approach to STEM Teaching and Learning | Sep 2021 – Aug 2023 |
| NSF funded project that studied the impacts on elementary/middle school Black girls' exposure to early career Black female STEM professionals as role models. (Award Number: 2115138) | |

SERVICE & PROFESSIONAL MEMBERSHIPS

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|---|----------------|
| 2024 PanKind (Australian Pancreatic Cancer Foundation) Grant Review | |
| Adhoc Reviewer: <i>eLife, Journal of Natural Science Education</i> | |
| American Society for Cell Biology, <i>Postdoc Member</i> | 2016 - Present |
| American Society for Virology, <i>Student Member</i> | 2014 - 2017 |
| American Association for Cancer Research, <i>Student Member</i> | 2009 - 2012 |

FEATURES & APPEARANCES

Audio

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|---|-------------|
| Scientifically Sound: | 28 Mar 2022 |
| I'm Every Woman ft. Dr. Jaye Gardiner and Dr. Danielle Twum | |
| On the Job Podcast: | 17 May 2021 |
| Episode 34: Comics with a Cause | |
| Real Talk: A Diversity in Higher Ed Podcast | 30 Mar 2021 |
| Episode 7: Drawing Conclusions, the Art & Science of Cartooning | |
| Nature Check D&D | 22 Nov 2020 |
| The Dance of the Bumblekits: World of WyldrVir One-Shot | |
| Wisconsin Radio Network Interview | 3 May 2019 |
| WORT 89.9 FM Radio Interview | 2 May 2019 |
| Bougie By Association Podcast: | 7 Feb 2019 |

[Episode 21: Talk with Dr. Jaye C. Gardiner](#)

Out of the Darkroom: Exposure Podcast

18 Jan 2018

[Episode 1: Dr. Jaye C. Gardiner](#)

Video

Illustrating insights into the academic job market: Q&A with Dr. Jaye Gardiner

[\[https://youtu.be/CH4afNXietg\]](https://youtu.be/CH4afNXietg)

26 Nov 2024

Myth-busting Scientists Bring Reality Check to Comic Con [\[https://tinyurl.com/KPBS-ComicCon\]](https://tinyurl.com/KPBS-ComicCon)

21 Jul 2023

Jaye Gardiner Wins Early Career Award for Public Engagement

[\[https://youtu.be/YPNLERQoddw\]](https://youtu.be/YPNLERQoddw)

6 Mar 2023

PBS SciGirls Profile: Jaye Gardiner - Cancer Researcher/Illustrator

[\[https://tinyurl.com/scigirls-jaye\]](https://tinyurl.com/scigirls-jaye)

16 Feb 2023

First Star National STEAM Academy: Cancer Biology and Comics with Dr. Jaye Gardiner

[\[https://youtu.be/xVsg3qjFwiY\]](https://youtu.be/xVsg3qjFwiY)

23 Jul 2022

Camp GoldieBlox by Amy Poehler's Smart Girls and GoldieBlox

Episode 7: Teaching Kids about Problem Solving and Failure [\[https://youtu.be/aeircprqftM\]](https://youtu.be/aeircprqftM)

26 Sep 2021

Macalester Young Alumni Award - Jaye Gardiner '11 [\[https://youtu.be/88jOvM117xo\]](https://youtu.be/88jOvM117xo)

28 May 2021

YouTooBio: Interview with a Super Cool Scientist [\[https://youtu.be/ahEsciAKzuE\]](https://youtu.be/ahEsciAKzuE)

16 Mar 2021

Meet AAAS IF/THEN Ambassador: Jaye Gardiner [\[https://youtu.be/sGim40OuJqA\]](https://youtu.be/sGim40OuJqA)

8 Sep 2020

Print

American Society for Cell Biology

[Art in Science: A Gateway to Public Engagement](#)

30 Sep 2024

KNKX Public Radio

[Lack of diversity in STEM fields sparks new Seattle exhibit](#)

8 Jan 2024

National Institutes of General Medical Sciences

[2023 MOSAIC Scholars](#)

22 Mar 2023

American Association for the Advancement of Science

[AAAS Recognizes 2023 Award Winners for Contributions to Science and Society](#)

4 Mar 2023

Fox Chase Cancer Center

[Fox Chase's Jaye Gardiner Receives NIH MOSAIC Postdoctoral Career Transition Award to Promote Diversity](#)

3 Feb 2023

American Society for Cell Biology

[Jaye Gardiner Receives Merton Bernfield Memorial Award](#)

1 Nov 2022

Association for Women in Science

[The Melding of Art and Science](#)

15 Aug 2022

The San Diego Comic Con Unofficial Blog

[IF/THEN Ambassadors Will Blind Us with Science at the Comic-Con Museum for SDCC 2022](#)

16 Jul 2022

Fred Hutchinson Cancer Center

[Fred hutch announces recipients of the 4th annual Dr. Eddie Méndez Award](#)

22 Jun 2022

Temple University

[Black History Month Award Winners: Diverse and Deeply Devoted](#)

14 Mar 2022

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|---|-------------|
| American Association for the Advancement of Science <u>IF/THEN Ambassadors are Inspiring the Next Generation of STEMM Talent</u> | 25 Feb 2022 |
| Fox Chase Cancer Center <u>Jaye Gardiner Awarded Inaugural Black In Cancer Fellowship for Her Pancreatic Cancer Research</u> | 22 Nov 2021 |
| The Animation Lab <u>#SeeingDiversity</u> | Aug 2021 |
| Macalester College <u>2021 Alumni Award Recipients</u> | 2 Jun 2021 |
| Cell Press - Cell Mentor <u>1,000 Inspiring Black Scientists in America</u> | 28 Dec 2020 |
| University of Wisconsin-Madison - OnWisconsin <u>Turning Science Into Stories: JKX Comics Illustrates Vital Concepts for NonScientists</u> | Winter 2020 |
| Circle Around - Inspiration <u>6 Female Artists Creating Comics for Change</u> | 30 Jul 2020 |
| Philadelphia Inquirer - The Upside <u>Cancer Researcher Jaye Gardiner Creates Science Comics for to Explain Science to Non-Scientists</u> | 21 Jul 2020 |
| Cell Press - Cell Mentor <u>100 More Inspiring Black Scientists in America</u> | 19 Jun 2020 |
| Science News <u>Real-life Scientists Inspire These Comic Book Superheroes</u> | 14 Jun 2020 |
| Cell Press - Cell Mentor <u>Educational Comic Artist Jaye Gardiner</u> | 12 Jun 2020 |
| Macalester College - Macalester Today <u>I Like To Dream Big</u> | 22 Apr 2020 |
| Fox Chase Cancer Center <u>Fox Chase Cancer Center's Jaye Gardiner, PhD Selected as AAAS IF/THEN® Ambassador</u> | 21 Nov 2019 |
| Technical.ly <u>Why Scientist Dr. Jaye Gardiner Draws Comics to Encourage Diversity in STEM Fields</u> | 18 Sep 2019 |
| BTN LiveBIG <u>A Group Of Wisconsin Grads Are Using Comic Books To Promote Science Education</u> | 15 May 2019 |
| Comics Sci Blog <u>How Can Writing Comics Make You A Better Scientist</u> | 3 May 2019 |
| University of Wisconsin - Madison News <u>Science Goes to the Comics at Saturday Showcase</u> | 2 May 2019 |
| Fox Chase Cancer Center <u>Fox Chase Cancer Center Pancreatic Cancer Researcher Receives American Cancer Society Research Grant</u> | 13 Dec 2018 |
| Isthmus <u>Science Meets Comics - A project Funded by UW-Madison Explores New Ways of Presenting Research</u> | 13 Dec 2018 |
| McArdle Laboratory for Cancer Research Blog <u>Graduate Students Use Comics to Inspire the Next Generation of STEM Students</u> | 13 Aug 2018 |
| WARF News | 15 Sep 2016 |

