

Jaye C. Gardiner, Ph.D.

American Cancer Society Fellow
Emerald Foundation Black In Cancer Fellow
NIGMS MOSAIC K99/R00 Fellow
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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

Postdoctoral Research

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| Assistant Research Professor , Laboratory of Dr. Edna Cukierman | Dec 2021 – Present |
| Postdoctoral Research Associate , Laboratory of Dr. Edna Cukierman Fox Chase Cancer Center, <i>Philadelphia, PA</i> Cancer Signaling and Epigenetics | Aug 2017 – Dec 2021 |

My postdoctoral studies work to understand how fibroblasts communicate within the pancreatic cancer tumor microenvironment via the pathological expression of the neuronal protein Netrin G1 and the complex signaling cascades surrounding it (*manuscript in preparation*).

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 doctoral work, 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. With this system, I elucidated that the viral Env and Gag proteins were necessary for HIV localized assembly and additionally were responsible for modifying the infected cell's interaction with its surrounding environment.

Undergraduate Research

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| Undergraduate Research Assistant , Laboratory of Dr. Lisa Peterson University of Minnesota, <i>Minneapolis, MN</i> | Jun 2009 – Aug 2010 |
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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

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

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

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](#)

PUBLICATIONS

Peer-reviewed manuscripts

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. *Sci Rep* doi: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. *PNAS*. 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. *J Virol*. 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. *J Virol*. doi:10.1128/JVI.00600-16

Manuscripts under review

Meaders, C.L., **Gardiner, J.C.**, Wynns, S., Nigam, S., Harris, J. 2023. A STEAM lesson plan diversifies middle school student conceptions of scientists. *Journal of Research in STEM Education*.

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.

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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|---|-------------|
| Davidson College Diversity in STEM Scholar Series Title: "Not your average scientist" | 16 Feb 2023 |
| SF Girls' School Intro to STEM Careers Speaker Series | 25 Jan 2023 |
| Dr. Eddie Mendez Postdoctoral Symposium | 19 Sep 2022 |
| First Star National STEAM Academy Tech Talk | 28 Jul 2022 |
| Stepping Stone Scholars Career Speaker | 12 Jan 2022 |
| Research Impact Summit 2021 | 2 Sep 2021 |
| STEM-It-Yourself Series Title: "Not your average scientist" | 22 May 2021 |
| University of Houston-Downtown Diversity in STEM Scholar Series Title: "Not your average scientist" | 30 Apr 2021 |
| Young Women In Biology Career Talk | 9 Apr 2019 |
| UW Carbone Community Advisory Board Title: "Making Science More Accessible" | 10 Mar 2021 |
| Houston Independent School District Lunch & Learn Series Title: "My Unfinished Career Path" | 28 Jan 2021 |
| Monterey Peninsula College STEAM 2.0 Online Event Title: "Why Choose? Navigating Identities as Scientists/Artists" | 24 Nov 2020 |
| University of Richmond Biology Department Scientist of Color Seminar Series, Title: "Embracing the unexpected: Drawing insights from cellular conversations and IDEAs for a better future" | 2 Nov 2020 |
| Philadelphia Young Professionals of the American Cancer Society, Nerd Nite Philly Title: "Discovering with the Unexpected" | 3 Mar 2020 |

Panelist

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| 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 |

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| 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 |
| 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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| In Their Eyes: Conservation + Comics Student Poster Session | 3 Jun 2021 |
| 2020 Leading Edge Symposium, Cancer Biology Session | 18 Aug 2020 |

Workshop Leader

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| 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

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| 2022 Cell Bio - An ASCB and EMBO Meeting Title: "Bioinformatic analyses reveal a novel role of ANG-TEK signaling in PDAC cancer-associated fibroblasts" – <u>BERNFIELD MEMORIAL AWARD TALK</u> | 4 Dec 2022 |
| 2022 Cell Bio - An ASCB and EMBO Meeting Title: "Gaining STEAM! Illuminating research through art" | 3 Dec 2022 |
| 2022 Black in Cancer Conference Title: "How do you improve the outcome of a highly lethal cancer?" | 10 Oct 2022 |
| 2022 Leading Edge Symposium Title: "Bioinformatic analyses reveal a novel role of ANG-TEK signaling in PDAC cancer-associated fibroblasts" | 13 Jul 2022 |
| 2022 STEAM Power: Imagining Tomorrow: Innovation with Heart | 17 Mar 2022 |

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| Title: "Conservation + Comics: Innovative Ways to Teach STEM and Foster Science Identity" | |
| 2021 Guild of Natural Science Illustrators - Virtual Visual SciComm Conference Title: "Passion meets purpose: STEM comics for all" | 17 Jul 2021 |
| 2018 American Society for Cell Biology Conference Title: "Art and Science Collide!: Engaging Students with STEM-based Comics" | 9 Dec 2018 |
| 2018 National Science Teacher Association STEM Forum Title: "Art and Science Collide!: Engaging Students with STEM-based Comics" | 13 Jul 2018 |
| 2017 American Society for Virology Conference Title: "Non-Specific Interactions Between HIV-1 Gag and Envelope Proteins Regulate the Formation and Stability of Virological Synapses" | 24 Jun 2017 |
| 2015 American Society for Virology Conference Title: "Retroviral Infection Modulates Cell-Cell and Cell-Extracellular Matrix Interactions" | 11 Jul 2015 |
| 2015 Cold Spring Harbor Retroviruses Meeting Title: "Viral and Extracellular Determinants Regulate HIV-1 Virological Synapse Formation, Stabilization, and Turnover" | 22 May 2015 |
| 2014 American Society for Virology Conference Title: "Role of Env Cytoplasmic Tail Domain in HIV-1 Cell-to-Cell Transmission" | 23 Jun 2014 |

Poster Presentations

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| 2022 Cell Bio - An ASCB and EMBO Meeting Title: "Bioinformatic analyses reveal a novel role of ANG-TEK signaling in PDAC cancer-associated fibroblasts" | 5 Dec 2022 |
| 2022 Cell Bio - An ASCB and EMBO Meeting Title: "In Their Eyes: Building Scientific Knowledge, Environmental Stewardship, and Science Identity through Innovative STEAM Programming" | 4 Dec 2022 |
| 2022 Cell Bio - An ASCB and EMBO Meeting Title: "Gaining STEAM! Illuminating research through art" | 4 Dec 2022 |
| 2021 Communicating the Future: Engaging the Public in Basic Science – SciPEP Title: "In Their Eyes: Building Scientific Knowledge, Environmental Stewardship, and Science Identity through Innovative STEAM Programming" | 28 Jul 2021 |
| 2021 Communicating the Future: Engaging the Public in Basic Science – SciPEP Title: "Gaining STEAM: Illuminating Research Through Art" | 27 Jul 2021 |
| 2019 American Society for Cell Biology Conference Title: "Neuronal synaptic proteins regulate cancer-associated fibroblast pro-tumor features in pancreatic cancer" | 7 & 9 Dec 2019 |
| 2018 American Society for Cell Biology Conference Title: "Art and science collide!: Engaging students with STEM-based comics" | 9 Dec 2018 |
| 2018 American Society for Cell Biology Conference Title: "Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer" | 8 & 10 Dec 2018 |
| 2017 American Society for Cell Biology Conference Title: "Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer" | 2 & 4 Dec 2017 |
| 2017 CSHL Biology of Cancer: Microenvironment and Metastasis Meeting Title: "Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer" | 11 Oct 2017 |
| 2017 Communicating Science Conference (ComSciCon) Flagship Meeting Title: "JKX Comics: Increasing scientific literacy, access, and exposure, through comics" | 24 Jun 2017 |
| 2016 American Society for Cell Biology Conference Title: "Roles for HIV-1 Matrix, Rho Family GTPases, and Extracellular Viscosity in regulating Envelope-induced cell-cell fusion" | 3 & 5 Dec 2016 |

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| 2014 “Wisc-e-Sota” UMN-UW Virology Training Grant Symposium Title: “HIV-1 Env’s cytoplasmic tail domain regulates multiple aspects of viral cell-to-cell transmission at the virological synapse”, <u>BEST POSTER AWARD</u> | 10 Oct 2014 |
| 2012 SciMed GRS Research Symposium Title: “Roles for the extracellular matrix in retroviral cell-to-cell spread”, <u>BEST POSTER AWARD</u> | 26 Apr 2012 |
| 2010 Life Sciences Summer Undergraduate Research Program (LSSURP) Research Symposium Title: “Determination of O6-alkylguanine-DNA alkyltransferase variants ability to repair O6-[4-Oxo-4-(3-pyridyl)butyl]guanine adducts relative to O6-methylguanine adducts” | 14 Aug 2010 |
| 2010 North Star STEM Alliance Student Research Symposium Title: “Determining difference in Alkylguanine-DNA alkyltransferase variants’ ability to repair the O6-alkylguanine adducts, O6-methylguanine and O6-pyridyloxobutylguanine” | 30 Mar 2010 |
| 2009 Macalester College Undergraduate Research Symposium Title: “Determining difference in Alkylguanine-DNA alkyltransferase variants’ ability to repair the O6-alkylguanine adducts, O6-methylguanine and O6-pyridyloxobutylguanine” | 8 Oct 2009 |

HONORS & AWARDS

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| AAAS Early Career Public Engagement Award | 2023 |
| ASCB Merton Bernfield Memorial Award | 2022 |
| Fred Hutchinson Cancer Center Dr. Eddie Méndez Scholar Award | 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 |
| HHMI/Janelia Leading Edge Fellow | 2020 |
| Alaska Robotics Comics Camp Selected Participant | 2020 |
| 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 |

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| 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 |

TEACHING & MENTORING EXPERIENCE

Teaching

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| <p>Teen Research Internship Program (TRIP) Initiative Instructor, <i>Fox Chase Cancer Center</i></p> <ul style="list-style-type: none"> Helped guide 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. | Feb 2018 – Mar 2020 <i>COVID-19 interruption</i> |
| <p>PEER Program Workshop Instructor, <i>University of Tennessee-Knoxville</i></p> <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. | 12-13 Aug 2015 |
| <p>Instructor of Record, <i>University of Wisconsin-Madison</i></p> <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. | Fall 2014 |
| <p>Lab Preceptor for General Chemistry I and General Chemistry II, <i>Macalester College</i></p> | Sep 2008 – May 2011 |

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 |
| William Tennent High School Women In Science and Engineering (WISE) Club Career Talk | 26 Oct 2018 |

Mentoring

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| <p>Life Science Communication (LSC) 640 Internship Mentor, <i>University of Wisconsin- Madison</i></p> <ul style="list-style-type: none"> Leo Barolo | Spring 2019 |
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| Science and Medicine Graduate Research Scholars (SciMed GRS) Peer Mentor , <i>University of Wisconsin-Madison</i> | 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. | |
| <ul style="list-style-type: none"> ● Joshua Cruz, PhD ● Nadia Khan, PhD ● Mary Susan Lopez, PhD | |
| Undergraduate Research Mentor , <i>University of Wisconsin-Madison</i> | Jan 2014 – Dec 2015 |
| <ul style="list-style-type: none"> ● Eliah A. Gomez ● Eric J. Mauer | Jun 2012 – May 2013 |
| Louis Stokes Alliance for Minority Students Participation (LSAMP) Program Student Mentor , <i>Macalester College</i> | Sep 2010 – May 2011 |

SCIENCE COMMUNICATION & OUTREACH LEADERSHIP POSITIONS

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| JKX Comics, co-founder and contributor | Nov 2015 – Present |
| <ul style="list-style-type: none"> ● 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 (@jlxcomics) presence on Twitter. | |
| ComSciCon Leadership Team | Nov 2019 – Present |
| <ul style="list-style-type: none"> ● Work as part of a team to decide the structure and execution of the Communicating Science Conference (ComSciCon) organization. ● Lead social media strategist. ● Programming Chair for 2021 ComSciCon Flagship meeting | Nov 2019 – Jun 2020 Oct 2020 – Sep 2021 |
| ComSciCon Flagship Programming Committee | Sep 2017 – Sep 2021 |
| <ul style="list-style-type: none"> ● 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.; Manage and organize a 10-person team in conference planning.; Establish 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 |
| <ul style="list-style-type: none"> ● 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

- 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.

Aug 2020 – Oct 2020

#UniqueScientists Team member

- 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.

Jul 2019 – Mar 2020
on indefinite hiatus

Gaining STEAM!: Illuminating Science through Art Program Organizer

- 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.

Apr 2018 – Jul 2019

ComSciCon 2017 Flagship Meeting Participant (50/1071 spots available)

Jun 2017

SciMed GRS Peer Mentoring Committee

- Helped develop 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.

Aug 2014 – Dec 2016

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

SERVICE & PROFESSIONAL MEMBERSHIPS

Adhoc Reviewer: *eLife, Journal of Natural Science Education*

American Society for Cell Biology, *Postdoc Member*

2016 - Present

American Society for Virology, *Student Member*

2014 - 2017

American Association for Cancer Research, *Student Member*

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 |

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| Bougie By Association Podcast: Episode 21: Talk with Dr. Jaye C. Gardiner | 7 Feb 2019 |
| Out of the Darkroom: Exposure Podcast Episode 1: Dr. Jaye C. Gardiner | 18 Jan 2018 |

Video

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| First Star National STEAM Academy: Cancer Biology and Comics with Dr. Jaye Gardiner [https://youtu.be/xVsq3qjFwiY] | 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] | 26 Sep 2021 |
| Macalester Young Alumni Award - Jaye Gardiner '11 [https://youtu.be/88jOvM117xo] | 28 May 2021 |
| YouTooBio: Interview with a Super Cool Scientist [https://youtu.be/ahEsciAKzuE] | 16 Mar 2021 |
| Meet AAAS IF/THEN Ambassador: Jaye Gardiner [https://youtu.be/sGim40OuJqA] | 8 Sep 2020 |

Print

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| Fox Chase Cancer Center Fox Chase's Jaye Gardiner Receives NIH MOSAIC Postdoctoral Career Transition Award to Promote Diversity | 3 Feb 2023 |
| Association for Women in Science The Mending 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 |
| American Association for the Advancement of Science IF/THEN Ambassadors are Inspiring the Next Generation of STEMM Talent | 25 Feb 2022 |
| Fox Chase Cancer Center Jaye Gardiner Awarded Inaugural Black In Cancer Fellowship for Her Pancreatic Cancer Research | 22 Nov 2021 |
| The Animation Lab #SeeingDiversity | Aug 2021 |
| Macalester College 2021 Alumni Award Recipients | 2 Jun 2021 |
| Cell Press - Cell Mentor 1,000 Inspiring Black Scientists in America | 28 Dec 2020 |
| University of Wisconsin-Madison - OnWisconsin Turning Science Into Stories: Jkx Comics Illustrates Vital Concepts for NonScientists | Winter 2020 |
| Circle Around - Inspiration 6 Female Artists Creating Comics for Change | 30 Jul 2020 |
| Philadelphia Inquirer - The Upside | 21 Jul 2020 |

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| <u>Cancer Researcher Jaye Gardiner Creates Science Comics for to Explain Science to Non-Scientists</u> | 19 Jun 2020 |
| Cell Press - Cell Mentor | |
| <u>100 More Inspiring Black Scientists in America</u> | |
| Science News | 14 Jun 2020 |
| <u>Three Real-life Scientists Inspire These Comic Book Superheroes</u> | |
| Cell Press - Cell Mentor | 12 Jun 2020 |
| <u>Educational Comic Artist Jaye Gardiner</u> | |
| Macalester College - Macalester Today | 22 Apr 2020 |
| <u>I Like To Dream Big</u> | |
| Fox Chase Cancer Center | 21 Nov 2019 |
| <u>Fox Chase Cancer Center's Jaye Gardiner, PhD Selected as AAAS IF/THEN@ Ambassador</u> | |
| Technical.ly | 18 Sep 2019 |
| <u>Why Scientist Dr. Jaye Gardiner Draws Comics to Encourage Diversity in STEM Fields</u> | |
| BTN LiveBIG | 15 May 2019 |
| <u>A Group Of Wisconsin Grads Are Using Comic Books To Promote Science Education</u> | |
| Comics Sci Blog | 3 May 2019 |
| <u>How Can Writing Comics Make You A Better Scientist</u> | |
| University of Wisconsin - Madison News | 2 May 2019 |
| <u>Science Goes to the Comics at Saturday Showcase</u> | |
| Fox Chase Cancer Center | 13 Dec 2018 |
| <u>Fox Chase Cancer Center Pancreatic Cancer Researcher Receives American Cancer Society Research Grant</u> | |
| Isthmus | 13 Dec 2018 |
| <u>Science Meets Comics - A project Funded by UW-Madison Explores New Ways of Presenting Research</u> | |
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| <u>Graduate Students Use Comics to Inspire the Next Generation of STEM Students</u> | |
| WARF News | 15 Sep 2016 |
| <u>WARF Support For Graduate Students</u> | |