



Jaye C. Gardiner

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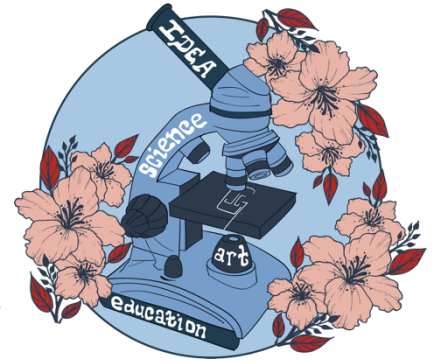
last updated 10.15.2021

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Education

Fox Chase Cancer Center Philadelphia, PA Postdoctoral Research Fellow	Aug 2017 - present
University of Wisconsin-Madison Madison, WI Doctor of Philosophy in the Department of Oncology and the Institute for Molecular Virology Cancer Biology Graduate Program	Graduated: May 2017
Macalester College Saint Paul, MN Bachelor of Arts in Biology Minors: Chemistry, Linguistics, and Japanese [audited]	Graduated: May 2011

Honors & Awards (Abbreviated)

Emerald Foundation Black In Cancer Postdoctoral Fellow	2022 - 2025
ASCB Accomplishing Career Transitions Fellow	2021 - 2023
Macalester College Young Alumni Award	2021
HHMI/Janelia Leading Edge Fellow	2020 - 2021
American Cancer Society Postdoctoral Fellowship	2019 - 2022
AAAS IF/THEN Ambassador	2019 - 2021
HHMI Hanna H. Gray Fellows Finalist	2018
Mindlin Foundation Science Communication Prize	2018
NIH T32 Cancer Biology Postdoctoral Training Grant	2017 - 2019
Morgridge Entrepreneurial Bootcamp	2017
Denice D. Denton Emerging Leaders Student Participant	2016
Ford Foundation Dissertation Fellowship, <i>Honorable Mention</i>	2016
UW-Madison Graduate Peer Mentor Award, <i>Honorable Mention</i>	2016
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
NSF Graduate Research Fellowship	2013 - 2016
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
Advanced Opportunity Fellowship	2011; 2016
Life Sciences Summer Undergraduate Research Program	2010

North Star STEM Alliance Undergraduate Research Grant	2009
Macalester College Grant	2007 - 2011
Catherine Lealtad Scholarship	2007 - 2011

Research Experience

Fox Chase Cancer Center – West Building Philadelphia, PA <i>Postdoctoral Research Trainee in Edna Cukierman's Lab</i> <u>Goal:</u> Elucidate the signal transduction in homotypic pancreatic cancer-associated fibroblast cell-cell interactions	Aug 2017 - Present
University of Wisconsin – R.M. Bock Laboratories Madison, WI <i>Graduate Research Assistant in Nathan Sherer's Lab</i> <u>Goal:</u> Determine how human immunodeficiency virus (HIV-1) promotes, maintains, and resolves tight cell-cell contacts for viral transmission	Dec 2011 – July 2017
University of Minnesota – Masonic Cancer Center Minneapolis, MN <i>Undergraduate Research Assistant in Lisa Peterson's Lab</i> <u>Goal:</u> Determination of O ⁶ -alkylguanine DNA alkyltransferase (AGT) variants ability to repair O ⁶ -[4oxo-4-(3-pyridyl)butyl]guanine (O ⁶ -pobG) adducts relative to O ⁶ -methylguanine (O ⁶ -meG) adducts	Jun 2009 – Aug 2010
Macalester College Saint Paul, MN <i>Research in Biochemistry Course – Professor Kathryn Splan</i> <u>Goal:</u> Determine amino acid residues that provide metal ion specificity in the GolS metal binding protein in <i>Salmonella</i>	Jan – May 2010
Macalester College Saint Paul, MN <i>Human Physiology Laboratory Course – Professor Lin Aanonsen</i> <u>Goal:</u> Determine neurochemical changes of L1 Cell Adhesion Molecule (L1CAM) in a chronic inflammatory mouse model	Jan – May 2010

Publications & Presentations

Academic Publications

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

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.*

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

Editorial Publications

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*.

Selected Oral Presentations

<i>Guild of Natural Science Illustrators - Virtual Visual Science Communication Conference, "Passion meets purpose: STEM comics for all"</i>	17 Jul 2021
<i>San Diego Convention Center – San Diego, CA American Society for Cell Biology Conference, "Art and Science Collide!: Engaging Students with STEM-based Comics"</i>	9 Dec 2018
<i>Pennsylvania Convention Center – Philadelphia, PA National Science Teacher Association Conference, "Art and Science Collide!: Engaging Students with STEM-based Comics"</i>	13 Jul 2018
<i>University of Wisconsin – Madison, Wisconsin American Society for Virology Conference, "Non-Specific Interactions Between HIV-1 Gag and Envelope Proteins Regulate the Formation and Stability of Virological Synapses"</i>	24 Jun 2017
<i>University of Western Ontario – London, Ontario, Canada American Society for Virology Conference, "Retroviral Infection Modulates Cell-Cell and Cell-Extracellular Matrix Interactions"</i>	11 Jul 2015
<i>Cold Spring Harbor Laboratories – Long Island, NY Cold Spring Harbor Retroviruses Meeting, "Viral and Extracellular Determinants Regulate HIV-1 Virological Synapse Formation, Stabilization, and Turnover"</i>	22 May 2015
<i>University of Wisconsin – Madison, WI Institute for Molecular Virology Seminar, "Pushing the Envelope: Multiple Roles for the Env Cytoplasmic Tail Domain in Regulating HIV-1 Cell-to-Cell Transmission"</i>	4 Dec 2014
<i>University of Colorado – Fort Collins, CO American Society for Virology Conference, "Role of Env Cytoplasmic Tail Domain in HIV-1 Cell-to-Cell Transmission"</i>	23 Jun 2014
<i>University of Wisconsin – Madison, WI Laboratory of Optical Computation and Instrumentation Collaborator Seminar, "HIV-1 Envelope Glycoprotein Signaling at the Virological Synapse"</i>	3 Apr 2014

Invited Talks, Panels, and Appearances

DaVinci Center Women in Science & Engineering (WISE) Forum Panel	12 Oct 2021
Research Impact Summit Speaker	2 Sep 2021
ComSciCon-Michigan 2021 Workshop Leader	22 Aug 2021
STEM Noire 2021 Conference, Science Outreach and Representation Panel	26 Jun 2021
Green Run High School Innovation Lab Community Conversation Speaker	04 Jun 2021
In Their Eyes: Conservation + Comics Student Poster Session	03 Jun 2021
ComSciConcepts - Combating COVID-17 within Black Communities Panelist	02 Jun 2021
STEM-It-Yourself Series Speaker	22 May 2021
On the Job Podcast: Episode 34: Comics with a Cause	17 May 2021
UHD Diversity in STEM Scholar Series	30 Apr 2021
Young Women in Bio – Southern California Bio Influencers: Discover the Art in Science	14 Apr 2021
Penn Nursing Innovation Colloquium: Use of Art and Comics in Health and Science	07 Apr 2021
Montgomery County Community College Guest Lecture	01 Apr 2021
Real Talk: A Diversity in High Ed Podcast; Episode 7: Drawing Conclusions, the Art & Science of Cartooning	30 Mar 2021
YouTooBio: Interview with a Super Cool Scientist	16 Mar 2021
University of Illinois-Chicago Bio196 Guest Lecture	4 Mar 2021

AAAS Annual Meeting – workshop	8 Feb 2021
Title: “Building your professional network as a woman of color in STEM”	
Houston Independent School District Lunch & Learn Series	28 Jan 2021
Monterey Peninsula College STEAM 2.0 Online Event	24 Nov 2020
Nature Check: World of Wyldrivr One-Shot	7 Nov 2020
University of Richmond Biology Department 2020 Scientist of Color Seminar Series,	2 Nov 2020
Title: “Embracing the unexpected: Drawing insights from cellular conversations and IDEAs for a better future”	
Wisc-e-Sota 8th Joint UMN-UW Virology Training Grant Symposium Career Development Panel	22 Oct 2020
Echo Rivera’s Blast Off to Stellar Slides Guess Workshop,	20 Oct 2020
Title: “Zines and Comics in Science Communication”	
UGA Life Sciences Industry Day 2020 Virtual Conference Panel	25 Sept 2020
University of Kentucky Careers in Science and Engineering Panel	29 Aug 2020
STEMing while Black Part III: Women in STEM Edition	22 Aug 2020
Leading Edge Symposium Session Moderator	18 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
Philadelphia Young Professionals of the American Cancer Society at Nerd Nite Philly,	3 Mar 2020
Title: “Discovering with the Unexpected”	

Select Poster Presentations

<i>Communicating the Future: Engaging the Public in Basic Science – Virtual</i>	28 Jul 2021
SciPEP, “In Their Eyes: Building Scientific Knowledge, Environmental Stewardship, and Science Identity through Innovative STEAM Programming”	
<i>Communicating the Future: Engaging the Public in Basic Science – Virtual</i>	27 Jul 2021
SciPEP, “Gaining STEAM: Illuminating Research Through Art”	
<i>Washington Convention Center – Washington D.C.</i>	7 & 9 Dec 2019
American Society for Cell Biology Conference, “Neuronal synaptic proteins regulate cancer-associated fibroblast pro-tumor features in pancreatic cancer”	
<i>San Diego Convention Center – San Diego, CA</i>	9 Dec 2018
American Society for Cell Biology Conference, “Art and science collide!: Engaging students with STEM-based comics”	
<i>San Diego Convention Center – San Diego, CA</i>	8 & 10 Dec 2018
American Society for Cell Biology Conference, “Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer”	
<i>Pennsylvania Convention Center – Philadelphia, PA</i>	2 & 4 Dec 2017
American Society for Cell Biology Conference, “Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer”,	
<i>Cold Spring Harbor Laboratories – Long Island, NY</i>	11 Oct 2017
Biology of Cancer: Microenvironment and Metastasis Meeting, “Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer”	
Harvard University – Cambridge, MA	24 Jun 2017
Communicating Science Conference (ComSciCon) Flagship Meeting, “JKX Comics: Increasing scientific literacy, access, and exposure, through comics”	

Moscone Center – San Francisco, CA American Society for Cell Biology Conference, "Roles for HIV-1 Matrix, Rho Family GTPases, and Extracellular Viscosity in regulating Envelope-induced cell-cell fusion"	3 & 5 Dec 2016
University of Wisconsin – Lacrosse, WI "Wisc-e-Sota" UMN-UW Virology Training Grant Symposium, "HIV-1 Env's cytoplasmic tail domain regulates multiple aspects of viral cell-to-cell transmission at the virological synapse", BEST POSTER AWARD	10 Oct 2014
University of Wisconsin – Madison, WI SciMed GRS Research Symposium, "Roles for the extracellular matrix in retroviral cell-to-cell spread", BEST POSTER AWARD	26 Apr 2012
University of Minnesota – Minneapolis, MN Life Sciences Summer Undergraduate Research Program (LSSURP) Research Symposium, "Determination of O ₆ -alkylguanine-DNA alkyltransferase variants ability to repair O ₆ -[4-Oxo-4-(3-pyridyl)butyl]guanine adducts relative to O ₆ -methylguanine adducts"	14 Aug 2010
University of Minnesota – Minneapolis, MN North Star STEM Alliance Student Research Symposium, "Determining difference in Alkylguanin-DNA alkyltransferase variants' ability to repair the O ₆ -alkylguanine adducts, O ₆ -methylguanine and O ₆ -pyridyloxobutylguanine"	30 Mar 2010
Macalester College – Saint Paul, MN Macalester College Undergraduate Research Symposium, "Determining difference in Alkylguanin-DNA alkyltransferase variants' ability to repair the O ₆ -alkylguanine adducts, O ₆ -methylguanine and O ₆ -pyridyloxobutylguanine"	8 Oct 2009

Teaching & Mentoring Experience

Teen Research Internship Program (TRIP) Initiative Instructor, Fox Chase Cancer Center	Feb 2018 – Mar 2020
<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. 	COVID-19 interruption
Life Science Communication (LSC) 640 Internship Mentor, University of Wisconsin- Madison	Spring 2019
Gaining STEAM!: Illuminating Science through Art Workshop Instructor, University of Wisconsin-Madison	Oct 2018
<ul style="list-style-type: none"> Facilitated programming to guide scientists at the University of Wisconsin-Madison to convert stories about their academic research into a comic storyboard. 	
Science and Medicine Graduate Research Scholars (SciMed GRS) Peer Mentor, University of Wisconsin-Madison	Aug 2012 – Dec 2016
<ul style="list-style-type: none"> Mentored first year graduate students from underrepresented background to facilitate their acclimation to Madison and graduate student life. 	
PEER Program Workshop Instructor, University of Tennessee-Knoxville	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 course taught at UW-Madison. 	

Undergraduate Research Mentor, University of Wisconsin-Madison

- Elish A. Gomez
- Eric J. Mauer

Jan 2014 – Dec 2015

Jun 2012 – May 2013

Instructor of Record, University of Wisconsin-Madison

Fall 2014

- 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.

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

Sep 2010 – May 2011

Lab Preceptor for General Chemistry I and General Chemistry II, Macalester College

Sep 2008 – May 2011

Science Communication & Outreach Leadership Positions

In Their Eyes: Conservation + Comics Project

Oct 2019 - Present

- 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

ComSciCon 2021 Flagship Meeting Program Organizing Committee Chair

Oct 2020 – Sep 2021

- Lead 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.

ComSciCon Leadership Team

Nov 2019 – Present

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

Nov 2019 – Jun 2020

Oct 2020 - Present

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 4-7 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.

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 <i>on indefinite hiatus</i>
<ul style="list-style-type: none"> • Curate twitter account (@Also_AScientist) highlighting diverse scientists daily. • Develop and construct trading cards for throwback Thursday (#UniqueTBT) events and for school use. • Design media for social media (Instagram) use. 	
ComSciCon 2020 Flagship Meeting Program Organizing Committee Vice-Chair	Sep 2019 – Jun 2020
<ul style="list-style-type: none"> • Assisted chair in developing first virtual conference. • Responsible for co-organizing “Zine and Comics in SciComm” workshop. • Moderated community Slack channel. 	
ComSciCon 2019 Flagship Meeting Program Organizing Committee	Sep 2018 – Jul 2019
<ul style="list-style-type: none"> • Help develop programming for the flagship Communicating Science Conference (ComSciCon) meeting which targets graduate students and recent graduates from the US and Canada to explore careers and skills in science communication. • Responsible for co-organizing and -moderating the “Creative Storytelling” panel and the science comedy workshop (led by Science Riot). 	
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 2018 Flagship Meeting Program Organizing Committee	Sep 2017 – Jun 2018
<ul style="list-style-type: none"> • Responsible for co-organizing the “Creative Storytelling” panel and Write-a-thon workshop (an opportunity for participants to receive peer and expert feedback on science communication pieces). 	
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"> • 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. 	
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