



Jaye C. Gardiner

www.jayegardiner.com

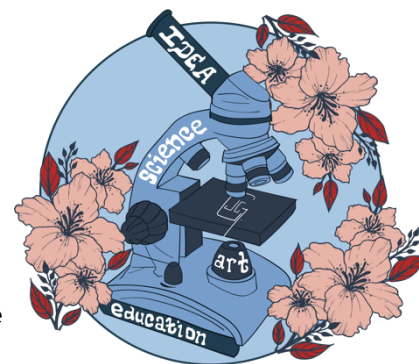
last updated 11.15.2020

Connect with me:

Email: jayegardiner.contact@gmail.com

Twitter: @jayeoverview | Instagram: @ajayeinthelife

LinkedIn: www.linkedin.com/in/jaye-gardiner



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)

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
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	2009
Macalester College Grant	2007 - 2011
Catherine Lealtad Scholarship	2007 - 2011

Research Experience

- Fox Chase Cancer Center – West Building** Philadelphia, PA Aug 2017 - Present
Postdoctoral Research Trainee in Edna Cukierman's Lab
Goal: Elucidate the signal transduction in homotypic pancreatic cancer-associated fibroblast cell-cell interactions
- University of Wisconsin – R.M. Bock Laboratories** Madison, WI Dec 2011 – July 2017
Graduate Research Assistant in Nathan Sherer's Lab
Goal: Determine how human immunodeficiency virus (HIV-1) promotes, maintains, and resolves tight cell-cell contacts for viral transmission
- University of Minnesota – Masonic Cancer Center** Minneapolis, MN Jun 2009 – Aug 2010
Undergraduate Research Assistant in Lisa Peterson's Lab
Goal: Determination of O⁶-alkylguanine DNA alkyltransferase (AGT) variants ability to repair O⁶-[4oxo-4-(3-pyridyl)butyl]guanine (O⁶-pobG) adducts relative to O⁶-methylguanine (O⁶-meG) adducts
- Macalester College** Saint Paul, MN Jan – May 2010
Research in Biochemistry Course – Professor Kathryn Splan
Goal: Determine amino acid residues that provide metal ion specificity in the GolS metal binding protein in *Salmonella*
- Macalester College** Saint Paul, MN Jan – May 2010
Human Physiology Laboratory Course – Professor Lin Aanonsen
Goal: Determine neurochemical changes of L1 Cell Adhesion Molecule (L1CAM) in a chronic inflammatory mouse model

Publications & Presentations

Academic Publications

- 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

- San Diego Convention Center – San Diego, CA* 9 Dec 2018
American Society for Cell Biology Conference, "Art and Science Collide!: Engaging Students with STEM-based Comics"
- Pennsylvania Convention Center – Philadelphia, PA* 13 Jul 2018
National Science Teacher Association Conference, "Art and Science Collide!: Engaging Students with STEM-based Comics"

<i>University of Wisconsin – Madison, Wisconsin</i>	24 Jun 2017
<i>American Society for Virology Conference, “Non-Specific Interactions Between HIV-1 Gag and Envelope Proteins Regulate the Formation and Stability of Virological Synapses”</i>	
<i>University of Western Ontario – London, Ontario, Canada</i>	11 Jul 2015
<i>American Society for Virology Conference, “Retroviral Infection Modulates Cell-Cell and Cell-Extracellular Matrix Interactions”</i>	
<i>Cold Spring Harbor Laboratories – Long Island, NY</i>	22 May 2015
<i>Cold Spring Harbor Retroviruses Meeting, “Viral and Extracellular Determinants Regulate HIV-1 Virological Synapse Formation, Stabilization, and Turnover”</i>	
<i>University of Wisconsin – Madison, WI</i>	4 Dec 2014
<i>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>	
<i>University of Colorado – Fort Collins, CO</i>	23 Jun 2014
<i>American Society for Virology Conference, “Role of Env Cytoplasmic Tail Domain in HIV-1 Cell-to-Cell Transmission”</i>	
<i>University of Wisconsin – Madison, WI</i>	3 Apr 2014
<i>Laboratory of Optical Computation and Instrumentation Collaborator Seminar, “HIV-1 Envelope Glycoprotein Signaling at the Virological Synapse”</i>	

Invited Talks, Panels, and Appearances

Nature Check: World of Wyldvire One-Shot	7 Nov 2020
University of Richmond Biology Department 2020 Scientist of Color Seminar Series, Title: “Embracing the unexpected: Drawing insights from cellular conversations and IDEAs for a better future”	2 Nov 2020
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, Title: Zine and Comics in Science Communication	20 Oct 2020
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, Title: “Discovering with the Unexpected”	3 Mar 2020

Select Poster Presentations

<i>Washington Convention Center – Washington D.C.</i>	7 & 9 Dec 2019
<i>American Society for Cell Biology Conference, “Neuronal synaptic proteins regulate cancer-associated fibroblast pro-tumor features in pancreatic cancer”</i>	
<i>San Diego Convention Center – San Diego, CA</i>	9 Dec 2018
<i>American Society for Cell Biology Conference, “Art and science collide!: Engaging students with STEM-based comics”</i>	
<i>San Diego Convention Center – San Diego, CA</i>	8 & 10 Dec 2018
<i>American Society for Cell Biology Conference, “Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer”</i>	

<i>Pennsylvania Convention Center – Philadelphia, PA</i>	2 & 4 Dec 2017
<i>American Society for Cell Biology Conference, “Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer”,</i>	
<i>Cold Spring Harbor Laboratories – Long Island, NY</i>	11 Oct 2017
<i>Biology of Cancer: Microenvironment and Metastasis Meeting, “Meaningful Connections: CAF-mediated cell-cell interactions in pancreatic cancer”</i>	
<i>Harvard University – Cambridge, MA</i>	24 Jun 2017
<i>Communicating Science Conference (ComSciCon) Flagship Meeting, “JKX Comics: Increasing scientific literacy, access, and exposure, through comics”</i>	
<i>Moscone Center – San Francisco, CA</i>	3 & 5 Dec 2016
<i>American Society for Cell Biology Conference, “Roles for HIV-1 Matrix, Rho Family GTPases, and Extracellular Viscosity in regulating Envelope-induced cell-cell fusion”</i>	
<i>University of Wisconsin – Lacrosse, WI</i>	10 Oct 2014
<i>“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</i>	
<i>University of Wisconsin – Madison, WI</i>	26 Apr 2012
<i>SciMed GRS Research Symposium, “Roles for the extracellular matrix in retroviral cell-to-cell spread”, BEST POSTER AWARD</i>	
<i>University of Minnesota – Minneapolis, MN</i>	14 Aug 2010
<i>Life Sciences Summer Undergraduate Research Program (LSSURP) Research Symposium, “Determination of O₆-alkylguanine-DNA alkyltransferase variants ability to repair O₆-[4-Oxo-4-(3-pyridyl)butyl]guanine adducts relative to O₆-methylguanine adducts”</i>	
<i>University of Minnesota – Minneapolis, MN</i>	30 Mar 2010
<i>North Star STEM Alliance Student Research Symposium, “Determining difference in Alkylguanin-DNA alkyltransferase variants’ ability to repair the O₆-alkylguanine adducts, O₆-methylguanine and O₆-pyridyloxobutylguanine”</i>	
<i>Macalester College – Saint Paul, MN</i>	8 Oct 2009
<i>Macalester College Undergraduate Research Symposium, “Determining difference in Alkylguanin-DNA alkyltransferase variants’ ability to repair the O₆-alkylguanine adducts, O₆-methylguanine and O₆-pyridyloxobutylguanine”</i>	

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. 	
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	
<ul style="list-style-type: none"> Elijah A. Gomez Eric J. Mauer 	Jan 2014 – Dec 2015 Jun 2012 – May 2013
Instructor of Record, University of Wisconsin-Madison	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. 	
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

ComSciCon 2020 Flagship Meeting Program Organizing Committee Chair	Oct 2020 - Present
<ul style="list-style-type: none"> Help lead the development of 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. 	
Black in Cancer Week Organizing Committee	Aug 2020 – Oct 2020
<ul style="list-style-type: none"> 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. 	
ComSciCon Leadership Team	Nov 2019 – Present
<ul style="list-style-type: none"> Work as part of a team to decide structure and execution of Communicating Science Conference (ComSciCon) organization. Lead social media strategist. Chair for 2021 Flagship meeting. 	– Jun 2020
#UniqueScientists Team member	Jul 2019 – Mar 2020 on hiatus
<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. 	
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 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. 	
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