

EFRAÍN E. RIVERA-SERRANO, PH.D. (HE/HIM/HIS)

ASSISTANT PROFESSOR OF BIOLOGY AT ELON UNIVERSITY

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RESEARCH AND TEACHING BRIEF

I am a molecular virologist and science communicator whose research examines how viruses interact with host cells and innate antiviral pathways, with interests in viral entry and egress, virus–host interactions, innate immune signaling, and oncolytic virotherapy. My work has spanned reoviruses, hepatitis viruses, and other RNA viruses, from fundamental studies of viral cell biology and antiviral immunity to current efforts identifying viral and cellular determinants of cancer-selective oncolysis. I complement this research with a longstanding commitment to science communication, including invited and keynote presentations, public-facing writing, interviews, and outreach designed to make complex scientific ideas accessible to diverse audiences.

As an educator, I am committed to creating engaging, inclusive, and intellectually challenging learning environments that help students develop both a strong foundation in biology and the confidence to think like scientists. My teaching spans introductory through upper-level courses in cell biology, physiology, infectious diseases, virology, and science communication, as well as interdisciplinary and experiential courses for both STEM and non-STEM audiences. Across these settings, I emphasize active learning, scientific literacy, communication, real-world applications, and authentic engagement with the process of science, while integrating undergraduate research and mentorship as central components of students' scientific development.

EDUCATION

Postdoctoral Fellow	in Molecular Virology	University of California, Davis, CA	2018–2019
Postdoctoral Scholar	in Virology & Cell Biology	University of North Carolina at Chapel Hill, NC	2017–2018
Ph.D.	in Comparative Biomedical Sciences	North Carolina State University, Raleigh, NC	2012–2016
M.Sc.	in Plant Cell Biology & Biotechnology	North Carolina State University, Raleigh, NC	2009–2012
B.Sc.	in Biology & Chemistry (<i>Summa Cum Laude</i>)	Pontificia Universidad Católica de Puerto Rico, Ponce, PR	2005–2009

PROFESSIONAL EXPERIENCE – EMPLOYMENT HISTORY

Assistant Professor of Biology (tenure-track)	Elon University, Elon, NC	2023–present
Assistant Teaching Professor of Biology (non-tenure-track)	Elon University, Elon, NC	2021–2023
Social Media Intern	Genetics Society of America (remote)	2021–2023
Contributing Editor & Column Writer	<i>American Scientist</i> magazine, Sigma Xi, The Scientific Research Honor Society (remote)	2021–2023
Social Media Specialist	<i>American Scientist</i> magazine, Sigma Xi, The Scientific Research Honor Society (remote)	2020–2021
Social Media Fellow	American Society for Cell Biology (remote)	2019–2023
Research Associate (Virologist)	Department of Microbiology & Immunology, University of North Carolina at Chapel Hill, NC	2019–2020
Postdoctoral Fellow	Department of Microbiology & Molecular Genetics, University of California, Davis, CA	2018–2019
Postdoctoral Scholar	Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill, NC	2017–2018
Graduate Research Assistant	Department of Molecular Biomedical Sciences, North Carolina State University, Raleigh, NC	2012–2016
Graduate Research Assistant	Department of Plant Biology, North Carolina State University, Raleigh, NC	2009–2012

PEER-REVIEWED PRODUCTS OF SCHOLARSHIP (click [here](#) for my Google Scholar page)

[†]Corresponding author; undergraduate mentees.

i. PRIMARY RESEARCH ARTICLES

Hutchinson JR, Carter OM, Dagli CV, **Rivera-Serrano EE[†]**. (2026) Reovirus reassortants reveal context-dependent oncolytic phenotypes across epithelial cancer cell lines. *Viral Immunol.* (7):281–287

Dagli CV, Hutchinson JR, Efremov AK, **Rivera-Serrano EE[†]**. (2026) Identification of reovirus reassortants with enhanced oncolytic activity in human fibrosarcoma cells. *Virus Genes.* 62(4):542–547

Rivera-Serrano EE[†]. (2026) Reovirus $\mu 2$ residue 208 drives SRSF2-dependent nuclear hyperaccumulation of IRF9. *MicroPubl Biol.* DOI: [10.17912/micropub.biology.002201](https://doi.org/10.17912/micropub.biology.002201)

Li C, Shi J, Wang H, **Rivera-Serrano EE**, Yang D, Zhou G, Sun C, Cameron C, and Yu L. (2020) Polymerase fidelity contributes to foot-and-mouth disease virus pathogenicity and transmissibility in vivo. *J Virol.* 95:e01569–20

Yamane D, Feng H, **Rivera-Serrano EE**, Selitsky SR, Hirai-Yuki A, Das A, McKnight KL, Misumi I, Hensley L, Lovell W, González-López O, Suzuki R, Matsuda M, Nakanishi H, Ohto-Nakanishi T, Hishiki T, Wauthier E, Oikawa T, Morita K, Reid LM, Sethupathy P, Kohara M, Whitmire JK, Lemon SM. (2019) Basal expression of interferon regulatory factor 1 drives intrinsic hepatocyte resistance to multiple RNA viruses. *Nat Microbiol.* 4(7):1096–1104

- Li Y, Wang L, **Rivera-Serrano EE**, Chen X, Lemon SM. (2019) TNRC6 proteins modulate hepatitis C virus replication by spatially regulating the binding of miR-122/Ago2 complexes to viral RNA. *Nucleic Acids Res.* 9;47(12):6411–642
- Rivera-Serrano EE**, González-López O, Das A, Lemon SM. (2019) Cellular entry and uncoating of naked and quasi-enveloped human hepatoviruses. *eLife.* 8:e43983
- González-López O, **Rivera-Serrano EE**, Hu F, Hensley L, McKnight KL, Ren J, Stuart DI, Fry EF, Lemon SM. (2018) Redundant late domain functions of tandem VP2 YPX₃L motifs in cellular egress of quasi-enveloped hepatitis A virus. *J Virol.* 92(23):e01308–18
- McKnight KL, Xie L, González-López O, **Rivera-Serrano EE**, Chen X, Lemon SM. (2017) Protein composition of the hepatitis A virus quasi-envelope. *Proc Natl Acad Sci USA.* 114(25):6587–6592
- Rivera-Serrano EE**, DeAngelis N, Sherry B. (2017) Spontaneous activation of a MAVS-dependent antiviral signaling pathway determines high basal interferon- β expression in cardiac myocytes. *J Mol Cell Cardiol.* 111:102–113 (*Article selected for [Journal Cover, Volume 111](#))
- Rivera-Serrano EE**, Fritch EJ, Scholl EH, Sherry B. (2017) A cytoplasmic RNA virus alters the function of the cell splicing protein SRSF2. *J. Virol.* 91(7):e02488–16 (*Article selected for [Journal Cover, Volume 9, Issue 9](#))
- Rivera-Serrano EE** and Sherry B. (2017) NF- κ B activation is cell type-specific in the heart. *Virology.* 502: 133–143
- Stebbing RE, Irvin SC, **Rivera-Serrano EE**, Boehme KW, Ikizler M, Yoder JA, Dermody TS, Sherry B. (2014) An ITAM in a nonenveloped virus regulates activation of NF- κ B, induction of beta interferon, and viral spread. *J Virol.* 88(5):2572–2583
- Rivera-Serrano EE**, Rodriguez-Welsh MF, Hicks GR, Rojas-Pierce M. (2012) A small molecule inhibitor partitions two distinct pathways for trafficking of tonoplast intrinsic proteins in Arabidopsis. *PLoS ONE.* 7(9):e44735

ii. COMMENTARIES AND REVIEW ARTICLES

- Roberts AT and **Rivera-Serrano EE**[†]. (2026) Innate antiviral immunity as a double-edged determinant of oncolytic virotherapy outcomes. *J Cancer Immunol.* 8(2):72–81
- Das A, **Rivera-Serrano EE**, Yin X, Walker C, Feng Z, Lemon SM. (2023) Cellular entry and egress of quasi-enveloped human hepatitis viruses. *Nat Rev Microbiol.* 21(9):573–589
- Rivera-Serrano EE**, Gizzi AS, Arnold JJ, Grove TL, Almo, SC, Cameron EE. (2020) Viperin reveals its true function. *Annu Rev Virol.* 7: 421–446
- Kong W, **Rivera-Serrano EE**, Neidleman JA, Zhu J. (2019) HIV-1 replication benefits from the RNA epitranscriptomic code. *J Mol Biol.* 431(24):5032–5038

iii. BOOK CHAPTERS

- Rivera-Serrano EE** and Lemon SM. (2021) Vesicle-mediated transcytosis and export of viruses. *Encyclopedia of Virology.* 4th Ed. 1, 529–541 doi: [10.1016/B978-0-12-814515-9.00061-8](https://doi.org/10.1016/B978-0-12-814515-9.00061-8)

FINANCIAL SUPPORT – GRANTS & AWARDS

i. EXTERNAL GRANTS

Sponsor: National Science Foundation (NSF) – Division of Mathematical Sciences
 Title: “*RUI: Mathematical modeling of innate antiviral and inflammatory responses for viral myocarditis*” ([DMS-2602053](#))
 Duration: September 1, 2026 – August 31, 2029 (estimated)
 Award amount: \$500,138 USD
 Role: Co-Principal Investigator (PI: Hwayeon Ryu, Ph.D., Elon University)

Pending:

Sponsor: Arnold and Mabel Beckman Foundation
 Grant: Beckman Scholars Program (submitted Spring 2026)
 Role: Potential Research Biology Mentor at Elon University (multi-PI proposal)

ii. INSTITUTIONAL FUNDING

2025	New Faculty Summer Research Funds (summer stipend to allow for summer research activities)	New Faculty Summer Research Funds, Elon University (\$4,800)
2024	“ <i>Strengthening interdisciplinary connections across STEM students through community building and professional development</i> ” (co-PI; with Hwayeon Ryu)	Innovation Grant, Elon University (\$5,000)
2024	“ <i>Building a community of Latinx student leaders interested in the healthcare professions</i> ” (PI; with undergraduate students Diana Jimenez-Carreno, Daniela Maldonado, Ashley Ramirez-Martinez, and Maximus Garganta)	HHMI Diversity, Equity, and Inclusion in STEM Project Development Mini Grant, Elon University (\$700)
2024	“ <i>Building a research community between mathematics and biology</i> ” (co-PI; with Hwayeon Ryu)	Elon College of Arts and Sciences Dean Mini Grant, Elon U. (\$500)
2024	“ <i>Introducing history & ethics of biology into an introductory seminar</i> ” (for the development of a seminar sophomore course, <i>BIO2770: Science Communication, Literacy, and Bioethics</i> , for biology majors)	HHMI Diversity, Equity, and Inclusion in STEM Project Development Mini Grant, Elon University (\$1,000)
2023	“ <i>Establishing a research platform to study the flexibility and limitations of viral evolution</i> ”	Hultquist Faculty Research & Development Award, Elon University (\$2,000 stipend + \$1,800 funds)
2017	“ <i>Cellular entry of naked and quasi-enveloped hepatitis A virus (HAV)</i> ” (PI; with Dr. Stanley Lemon)	UNC-CH/NIH T32 Infectious Disease Pathogenesis Postdoctoral Institutional Training Grant, (~\$57,000/year × 1.2 years)

2010	Graduate Assistance in Areas of National Need (GAANN) Fellowship in Molecular Biotechnology	U.S. Department of Education, North Carolina State University (~\$32,000/ year × 3 years)
2009	Diversity Enhancement Grant	NC State University Graduate School (\$800)
2009	Initiative for Maximizing Student Diversity (IMSD) Scholarship	NC State University Graduate School (~\$28,000)
2009	Alliances for Graduate Education and the Professoriate (AGEP) Initial Summer Research (ISR) Scholarship	NC State University Graduate School (\$5,600)
2008	Alliances for Graduate Education and the Professoriate (AGEP) Summer Research Experience (SRE) Scholarship	NC State University Graduate School (\$4,000)
2008	Puerto Rico Louis Stokes Alliances for Minority Participation (PR-LSAMP) Scholarship	Pontifical Catholic University of Puerto Rico (\$1,000/semester × 3 semesters)

iii. CONFERENCE TRAVEL AWARDS

2026	Teacher of Undergraduates Travel Award (\$1,000) – to attend the 45 th ASV Meeting in Minneapolis, MN	American Society for Virology (ASV)
2025	Teachstravaganza 2025 Summer Workshop (all expenses covered + stipend) in Seattle, WA	The Allen Institute of Cell Science
2025	Undergraduate Faculty Travel Grant (\$2,250) – to attend the AAI Annual Meeting in Honolulu, HI	American Association of Immunologists (AAI)
2019	SciComm Travel Grant – to attend the 2019 SACNAS Annual Meeting in Honolulu, HI (\$925)	The Kavli Foundation and SACNAS (Society for Advancement of Chicanos/Hispanics and Native Americans in Science)
2018	Postdoctoral Travel Award – to attend the 37 th ASV Meeting in College Park, MD (\$500)	American Society for Virology (ASV)
2015	Travel Award (all expenses covered) – to attend the 22 nd Annual Compact for Faculty Diversity Institute on Teaching & Mentoring in Arlington, VA	NC State University Graduate School and the Southern Regional Education Board (SREB)
2013	Graduate Student Travel Award – to attend the 32 nd ASV Meeting in University Park, PA (\$500)	American Society for Virology (ASV)
2013	Travel Award (all expenses covered) – to attend the 20 th Annual Compact for Faculty Diversity Institute on Teaching & Mentoring in Arlington, VA	NC State University Graduate School and the Southern Regional Education Board (SREB)
2012	Graduate Student Travel Award (\$300) – to attend the dsRNA Viruses Meeting in San Juan, Puerto Rico	NC State University College of Veterinary Medicine
2012	Travel Award (all expenses covered) – to attend the 19 th Annual Compact for Faculty Diversity Institute on Teaching & Mentoring in Tampa, FL	NC State University Graduate School and the Southern Regional Education Board (SREB)

2011	Travel Award (all expenses covered) – to attend the 18 th Annual Compact for Faculty Diversity Institute on Teaching & Mentoring in Atlanta, GA	NC State University Graduate School and the Southern Regional Education Board (SREB)
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RESEARCH AND PROFESSIONAL DEVELOPMENT PRESENTATIONS

i. PRESENTATIONS – RESEARCH (selected)

- 2026 “*Development of laboratory modules in virology suitable for the undergraduate classroom*” (poster) at the 45th Annual American Society for Virology (ASV) Meeting. Minneapolis, MN
- 2026 “*Identification and characterization of a reovirus variant with improved oncolytic potential against fibrosarcoma*” (oral) at the 2026 Southeastern Regional Virology Conference (SERVC). Atlanta, GA
- 2026 “*Development of laboratory modules in virology suitable for the undergraduate classroom*” (poster) at the 2025 Annual Meeting of the American Association of Immunologists. Honolulu, HI
- 2021 “*Illuminating the micro-world to understand viral infections*” (invited 1-hour seminar) for the BRIDGE Scholars Program at UMass-Amherst. Virtual due to COVID-19
- 2019 “*Through the looking glass: Illuminating the micro-world to understand viral infections*” (invited 1-hour seminar) at the University of Oregon. Eugene, OR
- 2018 “*From attempts to touchdowns: imaging virus-cell interactions*” (invited 1-hour seminar) at the University of California, Davis. Davis, CA
- 2018 “*Distinct cellular entry pathways for naked and quasi-enveloped hepatitis A virions*” (oral) at the 37th Annual American Society for Virology (ASV) Meeting. College Park, MD
- 2018 “*Distinct cellular entry pathways for naked and quasi-enveloped hepatitis A virions*” (oral & poster) at the *European Congress on Picornavirus Research*. Egmond aan Zee, the Netherlands
- 2018 “*One hundred years of solitude – a molecular arms race between viruses and their host*” (invited 1-hour seminar) at the Pontifical Catholic University of Puerto Rico Science Week and XVI Scientific Research Symposium. Ponce, Puerto Rico
- 2016 “*The mRNA splicing factor SRSF2 is involved in the host interferon antiviral response and it is antagonized by a viral protein*” (poster; **Award of Excellence – First Prize Poster Presentation**) at the NCSU College of Veterinary Medicine Annual Research Forum. Raleigh, NC
- 2015 “*MAVS abundance and subcellular localization is a determinant of high basal expression of interferon- β in cardiac myocytes*” (oral) at the NCSU College of Veterinary Medicine Annual Research Forum. Raleigh, NC
- 2015 “*Novel subcellular NF- κ B location is associated with basal expression of interferon- β in cardiac myocytes*” (oral) at the 34th Annual American Society for Virology (ASV) Meeting. Ontario, Canada
- 2015 “*MAVS abundance and subcellular localization is a determinant of basal expression of interferon- β in cardiac myocytes*” (poster) at the Duke Innate Immunity Group Symposium. Durham, NC
- 2015 “*MAVS abundance and subcellular localization is a determinant of basal expression of interferon- β in cardiac myocytes*” (poster) at the 10th Annual NC State University Graduate Student Research Symposium. Raleigh, NC

- 2013 “*TRAF3 is spontaneously activated in cardiac myocytes and sequestered in viral factories during reovirus infection*” (oral)
at the 32nd Annual American Society for Virology (ASV) Meeting. University Park, PA
- 2012 “*TRAF3, an adaptor required for induction of interferon, is sequestered in viral factories in reovirus-infected cells*” (poster; “**Outstanding Poster Award**”)
at the 11th International Symposium on Double-Stranded RNA Viruses. San Juan, Puerto Rico
- 2012 “*Reovirus represses the cell protective interferon response by sequestering cell factors in viral factories*” (oral and poster)
at the 2012 Molecular Biotechnology Training Program Research Symposium. Raleigh, NC
- 2011 “*Chemical genomics identifies inhibitors of a Golgi-independent pathway for tonoplast proteins in Arabidopsis*” (poster; “**Best Poster Presentation Award**”)
at the 2011 Molecular Biotechnology Training Program Research Symposium. Raleigh, NC
- 2011 “*Chemical genomics identifies inhibitors of a Golgi-independent pathway for tonoplast proteins in Arabidopsis*” (poster)
at the 22nd International Conference on Arabidopsis Research. Madison, WI
- 2011 “*Tonoplast proteins are targeted to the vacuole membrane via multiple pathways in Arabidopsis*” (oral)
at the 6th Annual NCSU Plant Biology Graduate Student Symposium. Raleigh, NC
- 2008 “*Cloning of the β -galactosidase-like gene (BglA) from Sporobolomyces singularis into Escherichia coli and Pichia pastoris*” (poster)
at the 17th Annual NC State Undergraduate Research Symposium. Raleigh, NC

ii. INVITED PRESENTATIONS – SCIENCE COMMUNICATION AND PROFESSIONAL DEVELOPMENT

- 2026 “*Rolling the dice: what viruses can teach us about succeeding in academia*” (1-hour seminar)
for the Department of Biology at the University of Richmond. Richmond, VA
- 2023 “*Exactly the same, but different: using our scientific interests to design effective science communication strategies*” (**Keynote Speaker**)
at the FUTURES—STEM for All Regional Meeting, Pitt Community College. Winterville, NC
- 2023 “*Rolling the dice: what viruses can teach us about life*” (**Keynote Speaker**)
at the FUTURES—STEM for All Regional Meeting, Mitchell Community College. Statesville, NC
- 2022 “*From the bench to the desk: finding your voice in a sea of opportunities*”
at 6th Annual Career Exploration Symposium at Stony Brook University. Stony Brook, NY
- 2021 “*From the bench to the desk: finding your voice in a sea of opportunities*” (1-hour seminar)
for the BioCoRE Scholars Summer Retreat at Duke University. Durham, NC
- 2021 “*From the bench to the desk: finding your voice in a sea of opportunities*” (**Keynote Speaker**)
for the Office of Undergraduate Research Summer Research Symposium, University of North Carolina, Charlotte. Charlotte, NC (virtual due to COVID-19)
- 2021 “*Using our scientific interests to design science communication strategies*” (1-hour seminar)
for the BRIDGE Scholars Program at UMass-Amherst. Virtual due to COVID-19
- 2020 “*Illuminating the micro-world to understand viral infections*”
at the *American Scientist* lunchtime seminar series. Virtual due to COVID-19 [\[link\]](#)
- 2020 “*Managing challenges, struggles & uncertainty in Academia*” (invited panelist)
at the Memorial Sloan Kettering and the Postdoctoral Association. Virtual due to COVID-19
- 2020 “*La importancia de mentores en tiempos difíciles*” (invited panelist; in Spanish)

- for the local SACNAS Chapter at the University of Puerto Rico at Río Piedras. Virtual
- 2020 “Community Outreach Mentor Chat” (invited panelist)
webinar for NPR Joe’s Big Idea for NPR SciCommers
- 2020 “Exactly the same, but different – using our scientific interests to design science communication strategies” (oral)
for the Duke University SciComm Lunch & Learn Series. Durham, NC
- 2019 “Inclusive SciComm Workshop Discussion”
at the 2019 SACNAS Annual Meeting. Honolulu, HI
- 2019 “A logic of diversity: applying virology concepts to solve social problems”
for the Diversity STEMposium at The University of Oregon. Eugene, OR
- 2019 “Getting Published” (panelist)
for Yale Ciencia Academy. Virtual Panel
- 2019 “Hashtag SciComm: how social media platforms are shaping the future of science”
for the Science Communication Workshop at the University of California, Davis. Davis, CA

PUBLISHED OPINION ARTICLES AND SCIENCE COMMUNICATION SERVICE

i. PROFESSIONAL BLOGS & OPINION PIECES

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|------|--|---|
| 2022 | <i>“Wolverine genome assembly sets a standard for conservation geneticists”</i> | in <i>Genes to Genomes</i> , a blog from the Genetics Society of America [link] |
| 2021 | <i>“First Person: Stephaun Elite Wallace — (Re)building trust in public health campaign”</i> | an interview in <i>American Scientist</i> [link] |
| 2020 | <i>“Why people receiving the COVID-19 vaccines still need to wear masks”</i> | in <i>American Scientist</i> blogs [link] |
| 2020 | <i>“Vaccines, antiscience beliefs, and future pandemics”</i> | in <i>American Scientist</i> blogs [link] |
| 2020 | <i>“Navigating out of academia”</i> | an invited blog in <i>BioTechniques</i> [link] |
| 2020 | <i>“Debunking misinformation during a pandemic through storytelling”</i> | an invited blog in <i>BioTechniques</i> [link] |
| 2020 | <i>“Preguntas communes sobre los virus” (in Spanish)</i> | in <i>Ciencia Puerto Rico</i> [link] |
| 2019 | <i>“Breaking the silence: talking about mental health in graduate education”</i> | an invited blog in <i>BioTechniques</i> [link] |
| 2019 | <i>“Hashtag SciComm: how social media platforms are shaping the future of science”</i> | in <i>PLoS SciComm</i> [link] |

ii. INTERVIEWS AND SERVICE TO NEWS OUTLETS

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|------|-----------|---|
| 2020 | quoted in | <i>“The core lesson of the COVID-19 heart debate”</i> by Ed Yong for <i>The Atlantic</i> [link] |
| 2020 | quoted in | <i>“6 Feet apart is the gold standard, but should it be?”</i> by Markham Heid for <i>Medium</i> [link] |
| 2020 | quoted in | <i>“Is 6 feet far enough for social distancing? Here’s what science says”</i> by Isabella Isaac-Thomas for <i>PBS News</i> [link] |

2020	quoted in	"What we know about the coronavirus model the White House unveiled" by Denise Chow for <i>NBC News</i> [link]
2020	quoted in	"Everything you need to know about cleaning public surfaces in a pandemic" by Dr. Katherine J. Wu for <i>PopSci</i> [link]
2019	interviewed in	"Efraín Rivera-Serrano: Personal training for scientists" by Marie Anne O'Donnell in the <i>Journal of Cell Biology</i> ; 218(8):2435-2436 [link]
2019	interviewed in	"Interview: Efraín Rivera-Serrano" by the journal <i>eLife</i> [link]
2016	interviewed in	"In living color" by Jordan Bartel for the <i>NC State College of Veterinary Medicine News</i> [link]

iii. PARTICIPATION IN POPULAR SCIENCE PODCASTS & AUDIOVISUALS

2020	"How to better know a virus"	in <i>This Week in Science</i> (TWIS) Podcast [link]
2020	"Viruses"	in <i>Skype a Scientist Live</i> with Dr. Sarah McAnulty [link]
2020	"All Things Microscopic: Scientists Tell Us About Their Research!"	in <i>STEM Uncovered</i> [link]
2020	"Viruses"	In <i>The Science Pawdcast</i> (Season 2, Ep. 8) [link]

TEACHING EXPERIENCE & TRAINING

Courses with an asterisk (*) are those that I fully developed. Student evaluations are available upon request.

i. As Tenure-Track Faculty at Elon University

Semester	Course ID and Name	No. Sections
Spring 2027	HNR27XX: Emerging Mathematics in Infectious Diseases* (to be co-taught with Dr. Hwayeon Ryu, Associate Professor of Mathematics)	1
Winter 2027	BIO1050: Infectious Diseases and Social Transformations* (for non-STEM majors, fulfills the Advancing Equity Requirement [AER])	1
	BIO1112: Introductory Cell Biology	1
	BIO2770: Science Communication, Literacy, and Bioethics*	1
Fall 2026	BIO3750: Virology*	1
	ELN1010: The First Year Advising Seminar	1
	GBL2900: Culture, Ecology, And Colonial Legacies in Puerto Rico (co-taught with Dr. Carol Smith, Professor of Wellness)	1
Winter 2026	BIO1050: Infectious Diseases and Social Transformations* (for non-STEM majors, fulfills the Advancing Equity Requirement [AER])	1
	BIO1112: Introductory Cell Biology	2
Fall 2025	BIO2770: Science Communication, Literacy, and Bioethics* (for biology sophomores, fulfills the Advancing Equity Requirement [AER])	1
Spring 2025	BIO2412: Human Physiology	1

	BIO2970: Introductory Seminar in Biology	2
Winter 2025	BIO1050: Emerging Infectious Diseases*	1
	BIO1112: Introductory Cell Biology	3
Fall 2024	BIO2970: Introductory Seminar in Biology	1
Summer 2024	BIO2122/2123: Microbiology for Health Professionals (lecture and lab)	1
	BIO2412: Human Physiology	2
Spring 2024	BIO2970: Introductory Seminar in Biology	2
	BIO2122: General Microbiology for Health Professionals	1
Fall 2023	BIO2123: General Microbiology for Health Professionals Laboratory	1
	BIO2413: Human Physiology Laboratory	2

ii. As Lecturer/Non-Tenure-Track Faculty at Elon University

Semester	Course ID and Name	No. Sections
	BIO1013: General Biology Lab	1
Spring 2023	BIO1064: Biology – The Science of Life	1
	BIO1113: Cell Biology Laboratory	2
	BIO2413: Human Physiology Laboratory	1
	BIO1112: Introductory Cell Biology	1
Fall 2022	BIO2412: Human Physiology	2
	BIO2413: Human Physiology Laboratory	2
	BIO1013: General Biology Lab	2
Spring 2022	BIO1064: Biology – The Science of Life	2
	BIO1113: Cell Biology Laboratory	1
Winter 2022	BIO1050: Emerging Infectious Diseases*	1
	BIO1112: Introductory Cell Biology	1
Fall 2021	BIO1113: Cell Biology Laboratory	1

iii. Additional Teaching Experience (not as primary course instructor)

Semester	Role	Topic Taught and Course Name	Institution
Spring 2024 and Spring 2026	Guest Lecturer	“Principles of Vaccinology” in HNR1600: Scientific Communication (1.5 h each)	Elon University
Spring 2021	Guest Lecturer	“Ecology of Viruses” (1.25 hours) in BIO361: Ecology of Parasites	Davidson College (Virtual due to COVID)

Spring 2019	Discussion facilitator & laboratory coordinator (co-taught with Dr. Helen Lazear, Associate Professor at UNC-Chapel Hill)	<i>“Advanced Virology”</i> (2-week module, 7-hours/day, lecture + lab intensive course for doctoral students; in Spanish and English; through the Nicaraguan Emerging and Endemic Diseases Program)	Universidad Nacional Autónoma de Nicaragua–León
Spring 2020	Guest Lecturer	<i>“Communicating Science through Social Media”</i> (1.5 h) for the SciComm Minor Program	University of California, Davis (Virtual)
Fall 2019	Guest Lecturer	<i>“Introduction to Advanced Light Microscopy Techniques”</i> in BIO251: Cell Biology (1.25 h)	Meredith College
Fall 2019	Laboratory Instructor	BIOC107L – Introduction to Biochemistry Laboratory	University of North Carolina at Chapel Hill
Spring and Fall 2014	Guest Lecturer	“Introduction to Scientific Writing” and “Rhetoric in the Sciences” in ENG101: Academic Writing (1.25 h × 3 lectures × 3 sections)	North Carolina State University
Spring 2012	Laboratory Instructor	PB200: Plant Life (lab portion only; sole instructor)	North Carolina State University

iv. PARTICIPATION IN TEACHING AND MENTORING WORKSHOPS

Year	Workshop / Event Title	Program / Sponsoring Institution	Contact Hours
2026	Navigating AI in higher education	American Society for Virology Education Workshop	1.5 h
2026	Designing AI-Enhanced Writing Assignments & Developing Students’ AI Critical Literacies	Center for Writing Excellence at Elon University	2-full days
2025	Advancing Equity Summer Institute (to design a new AER-designated course)	Elon University	3-full days
2024	Summer Faculty Institute on Supporting Neurodivergent Students	Elon University	3-full days
2015	Cultural challenges in the classroom	Southern Regional Education Board Institute on Teaching & Mentoring	1.5 h
2014	Responding to student writing	NC State University	3 h
2014	Negotiating authority in the classroom	NC State University	2 h
2014	Intercultural communication in the US classroom	NC State University	3 h
2014	Designing an effective syllabus	NC State University	2 h
2013	Dynamic lecturing: facilitating critical thinking in the classroom	Southern Regional Education Board Institute on Teaching & Mentoring	1.5 h
2013	Effective questioning techniques	NC State University	2 h

2013	Evaluation and grading	NC State University	2 h
2012	Teaching on the first day	NC State University	2 h
2012	Establishing credibility and authority in the classroom	NC State University	2 h
2011	Strategies for facilitating effective tutoring and review sessions	Southern Regional Education Board Institute on Teaching & Mentoring	1.5 h
2011	Motivating students: creating a healthy environment	NC State University	2 h
2011	Active Learning	NC State University	3 h
2011	Learning styles	NC State University	3 h
2010	Introduction to teaching	NC State University	3 h

RESEARCH MENTORING

i. RESEARCH STUDENTS MENTORED AS A FACULTY MEMBER AT ELON UNIVERSITY:

Name	Major(s)	Semesters	Current Position
(1) Charlotte Dagli (she/her)	Biology '25	August 2023 – May 2025 (six cred. BIO4999)	Postbac at the National Institutes of Health (NIH) in Bethesda, MD (June 2025 – present)

Selected awards and recognitions:

- Acorn to Oak Senior Award, Department of Biology, Elon University (2025)
- Undergraduate Travel Award, American Association of Immunologists (2025)
- Provost Scholar Award (1 out of 12 selected annually), Elon University (2025)
- Elon's Summer Undergraduate Research Experience (SURE) Scholar, Elon University (2024)
- Research Grant Awardee, NC Independent Colleges and Universities (2024)
- Grants-in-Aid Recipient (three times), Elon University (2023–2025)

(2) Thomas McKiernan (he/him)	Biology '25	February 2024 – May 2025 (four cred. BIO4999)	Doctor of Dental Surgery (DDS) Student at the University of Chapel Hill Adams School of Dentistry
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Selected awards and recognitions:

- Senior Keystone Species Award, Department of Biology, Elon University (2025)
- Grants-in-Aid Recipient, Elon University (2024)
- Rising Star Award, Department of Biology, Elon University (2024)

(3) Ethan Grossberg (he/him)	Biology '25	February 2024 – May 2025 (four cred. BIO4999)	Emergency Medical Technician (EMT), Tutor for Altius MCAT Test Prep, and applying for Med School
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Selected awards and recognitions:

- Reddish-Morgan Scholarship, Elon University (2024)
- Grants-in-Aid Recipient, Elon University (2024)

(4) Owen Carter (he/him)	Weddington High School	June 2025 – July 2025 (volunteer)	Undergraduate Student (Biology '30) at Wake Forest University
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Selected awards and recognitions:

- Leadership & Character Scholarship, Wake Forest University (2026 – 2030)

(5) Nivea Millner (they/them) Biology and English '25 August 2024 – May 2026 (8 cred. HNR4998) Applying for Ph.D. programs

Selected awards and recognitions:

- Elon Honors Fellow, Class of 2026
- Honors Thesis: “*Bridging Science and Society: Open Access, Visual Communication, and Public Engagement with Primary Research*” (April, 2026)

(6) Alice Efremov (they/them) Biology '26 February 2025 – May 2026 (four cred. BIO4999) Postbac at the National Institutes of Health (NIH) in Bethesda, MD (August 2026 – present)

Selected awards and recognitions:

- Elon’s Summer Undergraduate Research Experience (SURE) Scholar, Elon University (2025)
- Grants-in-Aid Recipient, Elon University (2025)
- Paul S. Reddish Memorial Scholarship, Department of Biology, Elon University (2025)
- R.D. Rao Scholarship, Department of Biology, Elon University (2024)

(7) Ryder Hutchinson (he/him) Nursing '28 February 2025 – May 2026 (four cred. BIO4999) Undergraduate ('28), Elon University

Selected awards and recognitions:

- Undergraduate Travel Award, American Society for Virology (2026)
- Featured in Burlington Times-News (2026) [[press release link](#)]
- Elon’s Summer Undergraduate Research Experience (SURE) Scholar, Elon University (2025)
- Grants-in-Aid Recipient, Elon University (2025)

(8) Elise Butterbach (she/her) Biomedical Engineering '27 August 2025 – May 2027 (eight cred. LUM4998) Undergraduate ('27), Elon University
(co-mentored with Dr. Hwayeon Ryu, Mathematics)

Selected awards and recognitions:

- Participated in the highly competitive Physical, Engineering and Biology Research Experiences for Undergraduates ([PEB-REU](#)) program at Yale University (Summer of 2026) [[feature article link](#)]
- Participated in the highly competitive “Visit NC State University Graduate School” program (Fall 2025)
- 2025 Lumen Prize Awardee (\$20,000) for the proposal “*Mathematical Modeling of Viral Myocarditis to Investigate Excessive Inflammation in the Heart*” (Mentors: Dr. Ryu and Dr. Rivera-Serrano [[link](#)])

(9) Alexander Roberts (he/him) Biology '27 February 2026 – May 2026 (four cred. BIO4999) Undergraduate ('27), Elon University

Selected awards and recognitions:

- Undergraduate Travel Award, American Society for Virology (2026)
- Research Grant (\$495), NC Independent College & Universities (2026) - recognized as “*the applicant with the highest rating awarded*” by NCICU [[link](#)]
- Yarbrough Research Grant (\$500), NC Academy of Sciences (2026)
- J. Nathan Grant Endowed Grant (\$1,300), Elon University (2026)

- Elon's Summer Undergraduate Research Experience (SURE) Scholar, Elon University (2026)
- Funded to participate in The Jackson Laboratory's Biomedical Data Science in Context Program in Bar Harbour, ME (2026)

(10) Kalialani Choate (she/her) Biochem '28 February 2026 – present (two cred. BIO4999 to date) Undergraduate ('28), Elon University

(11) Lisa Kranec (she/her) Biomed. Eng. & App. Math '28 August 2026 – present (two cred. LUM4998 to date) Undergraduate ('28), Elon University
(co-mentored with Dr. Hwayeon Ryu, Mathematics)

Selected awards and recognitions:

- 2026 Lumen Prize Awardee (\$20,000) for the proposal "*Mathematical Modeling of Excessive Collagen Production in Cardiac Fibrosis*" (Mentors: Dr. Ryu and Dr. Rivera-Serrano [\[link\]](#))

(12) Katherine Johnson (she/her) Biochem & Public Health '28 August 2026 – present (1 cred. BIO4999 to date) Undergraduate ('28), Elon University

Selected awards and recognitions:

- Elon College Fellow, Class of 2028

(13) Zachary Stein (he/him) Biology '29 August 2026 – present (1 cred. BIO4999 to date) Undergraduate ('29), Elon University

(14) Ava Mulchin (she/her) Biology and Neuro. '29 August 2026 – present (1 cred. BIO4999 to date) Undergraduate ('29), Elon University

Selected awards and recognitions:

- Elon Honors Fellow, Class of 2029

ii. RESEARCH PRESENTATIONS BY RESEARCH MENTEES

Presenter name is in bold; undergrads underlined.

2026

Roberts AT and Rivera-Serrano EE. *Targeting immune pathways to enhance the oncolytic potential of reovirus against fibrosarcoma cells*. State of North Carolina Undergraduate Research and Creativity Symposium (SNCURCS) at the University of North Carolina–Charlotte. – *pending, November 7th*

Roberts AT and Rivera-Serrano EE. *Targeting immune pathways to enhance the oncolytic potential of reovirus against fibrosarcoma cells*. International Conference on Undergraduate Research (ICUR). University of Warwick, UK. (virtual) - *pending, September 29th-30th*

Roberts AT and Rivera-Serrano EE. *Targeting immune pathways to enhance the oncolytic potential of reovirus against fibrosarcoma cells*. 45th Annual Meeting of the American Society for Virology. Minneapolis, MN (poster)

Hutchinson JR, **Carter OM**, **Dagli CV**, and Rivera-Serrano EE. *Reovirus reassortants reveal context-dependent oncolytic phenotypes across epithelial cancer cell lines*. 45th Annual Meeting of the American Society for Virology. Minneapolis, MN (poster)

Roberts AT and Rivera-Serrano EE. *Targeting immune pathways to enhance the oncolytic potential of reovirus against fibrosarcoma cells*. Elon's 2025 Summer Undergraduate Research (SURE '25) Symposium. Elon, NC (poster)

Butterbach E, Rivera-Serrano EE, and Ryu H. *Mathematical modeling of viral myocarditis to investigate excessive inflammation in the heart*. 2026 Spring Undergraduate Research Forum. Elon, NC (poster)

Efremov A, **Dagli CV**, and Rivera-Serrano EE. *Combining oncolytic virotherapy and chemotherapy against fibrosarcoma*. 2026 Spring Undergraduate Research Forum. Elon, NC (oral)

Millner N and Rivera-Serrano EE. *Conservation Biology research literacy: a framework for bridging the gap between scientists and the public*. 122nd Annual Meeting of the North Carolina Academy of Science (NCAS). Elon University. Elon, NC (oral)

Millner N and Rivera-Serrano EE. *Conservation Biology research literacy: a framework for bridging the gap between scientists and the public*. 2026 Spring Undergraduate Research Forum. Elon, NC (oral)

Hutchinson JR and Rivera-Serrano EE. *Reovirus reassortants reveal context-dependent oncolytic phenotypes across epithelial cancer lines*. 2026 Spring Undergraduate Research Forum. Elon, NC (oral)

Hutchinson JR, **Carter OM**, **Dagli CV**, and Rivera-Serrano EE. *Reovirus reassortants reveal context-dependent oncolytic phenotypes across epithelial cancer cell lines*. National Conference on Undergraduate Research (NCUR 2026). Richmond, VA (poster)

Millner N and Rivera-Serrano EE. *Prevalence and effectiveness of visual abstracts in peer-reviewed scientific articles*. National Conference on Undergraduate Research (NCUR). Richmond, VA (poster)

Efremov A, **Dagli CV**, and Rivera-Serrano EE. *Combining oncolytic virotherapy and chemotherapy against fibrosarcoma*. National Conference on Undergraduate Research (NCUR). Richmond, VA (poster)

2025

Efremov A and Rivera-Serrano EE. *Combining oncolytic virotherapy and chemotherapy against fibrosarcoma*. State of North Carolina Undergraduate Research and Creativity Symposium (SNCURCS 2025). Elon University. Elon, NC (oral)

Millner N and Rivera-Serrano EE. *Prevalence and effectiveness of visual abstracts in peer-reviewed scientific articles*. State of North Carolina Undergraduate Research and Creativity Symposium (SNCURCS 2025). Elon University. Elon, NC (oral)

Hutchinson JR, **Carter O**, and Rivera-Serrano EE. *Exploring the use of oncolytic viruses as therapeutic agents against lung adenocarcinoma*. State of North Carolina Undergraduate Research and Creativity Symposium (SNCURCS 2025). Elon University. Elon, NC (oral)

Carter O, **Hutchinson JR**, and Rivera-Serrano EE. *Image-based quantification of viral infection and cellular morphology changes using computer software*. 2025 Summer Undergraduate Research (SURE '25) Symposium. Elon, NC (poster)

Efremov A and Rivera-Serrano EE. *Combining oncolytic virotherapy and chemotherapy against fibrosarcoma*. 2025 Summer Undergraduate Research (SURE '25) Symposium. Elon, NC (poster)

Hutchinson JR, **Carter O**, and Rivera-Serrano EE. *Exploring the use of oncolytic viruses as therapeutic agents against lung adenocarcinoma*. 2025 Summer Undergraduate Research (SURE '25) Symposium. Elon, NC (poster)

Millner N and Rivera-Serrano EE. *An assessment of the state of open access within STEAM: an insight into the public's access to research*. 2025 Spring Undergraduate Research Forum. Elon, NC (poster)

Grossberg E and Rivera-Serrano EE. *Exploring the versatility of viral evolution and immune evasion through selective pressure*. 2025 Spring Undergraduate Research Forum. Elon, NC (oral)

McKiernan T and Rivera-Serrano EE. *Investigating the interplay between immune responses against bacteria and viruses in the oral cavity*. Spring Undergraduate Research Forum. Elon, NC (poster)

Dagli C and Rivera-Serrano EE. *Enhancing reovirus oncolytic potential against fibrosarcoma*. Elon's 2025 Spring Undergraduate Research Forum. Elon, NC (oral)

Dagli C and Rivera-Serrano EE. *Enhancing reovirus oncolytic potential against fibrosarcoma*. Annual Meeting for the American Association of Immunologists (Immunology 2025). Honolulu, HI (poster)

Dagli C and Rivera-Serrano EE. *Enhancing reovirus oncolytic potential against fibrosarcoma*. Integrating Research in Science (IRIS 2025). Elon, NC (oral)

Grossberg E and Rivera-Serrano EE. *Exploring the versatility of viral evolution and immune evasion through selective pressure*. Integrating Research in Science (IRIS 2025). Elon, NC (oral)

Dagli C. and Rivera-Serrano EE. *Enhancing reovirus oncolytic potential against fibrosarcoma*. National Conference on Undergraduate Research. Pittsburgh, PA (poster)

Grossberg E and Rivera-Serrano EE. *Exploring the versatility of viral evolution and immune evasion through selective pressure*. National Conference on Undergraduate Research. Pittsburgh, PA (poster)

2024

Dagli C and Rivera-Serrano EE. *Enhancing reovirus oncolytic potential against fibrosarcoma*. State of North Carolina Undergraduate Research and Creativity Symposium (SNCURCS). NC (virtual)

Dagli C and Rivera-Serrano EE. *Enhancing reovirus oncolytic potential against fibrosarcoma*. Elon's 2024 Summer Undergraduate Research (SURE '24) Symposium. Elon, NC (poster)

iii. TRAINEES MENTORED AT INSTITUTIONS OTHER THAN ELON UNIVERSITY:

- **Kayla Hiura (she/her)** — Junior Specialist at University of California, Davis (Nov. 2018 – October 2019)
Mentored while as a Postdoctoral Fellow at UC Davis
Currently: Quality Control Scientist at Orca Bio, Sacramento, CA
- **Ethan J. Fritch, Ph.D. (he/him)** — Microbiology Undergraduate at NC State University (2015 – 2016)
Mentored while as a Ph.D. candidate. Resulted in co-authorship on a peer-reviewed publication.
Currently: Oak Ridge Institute for Science and Education (ORISE) fellow within the USA DHHS
- **Rachel Garriss (she/her)** — Biochemistry Junior at NC State University (Spring 2011)
Currently: Clinical Research Associate at PAREXEL, Cary, NC
- **Wanda M. Figueroa-Cuilan, Ph.D. (she/her)** — REU Intern at NC State University (Summer 2010)
Currently: Senior Research Scientist at the University of Chicago

HIGHLIGHTS, LEADERSHIP, AND RECOGNITIONS

2026	Nominated for the <i>Excellence in Student Supervision</i> university award by research mentee Alice Efremov for my “immense impact, mentoring, and/or supervision”. Elon University.
2023 – 2024	Faculty Fellow, Sustainability Faculty Scholar Program (to incorporate topics related to sustainability to BIO2122: <i>Microbiology for Health Professionals</i>), Elon University
2021	Certificate in Scientific Writing and Editing, The Poynter Institute
2020	Highlighted as one of “ 100 Inspiring Hispanic/Latinx Scientists in America ” by Cell Mentor
2016	Student Fellow, Cultivating Cultures of Ethics in STEM: Comparing Meanings of Responsible Innovation Across Bioengineering Communities, The Genetic Engineering and Society (GES) Center at NC State University
2015 – 2016	Graduate Student Representative for the Comparative Biomedical Sciences Governance Committee, NC State University

- 2014 – President of the College of Veterinary Medicine Graduate Student Association (CVM-GSA; college-level), NC State University
- 2015
- 2014 – Graduate Student Representative for the NCSU College of Veterinary Medicine Diversity Strategic Planning Committee, NC State University
- 2015
- 2014 Highlighted as one of “*30 Male Scientists of Color That You Should Know*” in the American Chemical Society (ACS) Diversity eBrief
- 2013 Graduate Student of the Month Award (November 2013), College of Veterinary Medicine, NC State University
- 2013 – Vice-President of Academic Affairs of the University Graduate Student Association (GSA; university-level), NC State University
- 2014
- 2013 – Co-chair of the Research Recognition Committee, an internal committee of the University Graduate Student Association (GSA; university-level), NC State University
- 2014
- 2013 – Vice-President of the College of Veterinary Medicine Graduate Student Association (CVM-GSA; college-level), NC State University
- 2014
- 2012 Preparing Future Leaders (PFL) Certificate, NC State University
- 2010 – Treasurer of the Plant Biology Graduate Student Association (PBGSA; department-level), NC State University
- 2011
- 2009 Highest GPA Award in the Department of Biology Award – PUCPR Class of 2009
- 2008 – President of the βββ Biological Honor Society — Zeta Delta Chapter, Pontifical Catholic University of Puerto Rico
- 2009

SERVICE ACTIVITIES

Service to the University

- Fall 2026 **Instructor/Advisor** for Elon 1010: the 1st Year Advising Seminar, Elon University
- Spring 2026 **Interviewer**, for the selection of Lumen Prize awardees, Elon University
- July 13, 2026 **Presenter**, “*Designing Your Semester for Success*” (with Norma Rodriguez and Vicki Blocker) for the Odyssey Program Welcome Week, Class of 2030 Odyssey Scholars
- June 1-3, 2026 **Panelist and Mentor**, 2026 Advancing Equity Summer Institute (3 days)
- June 2026 **Panelist**, “*Pizza with the Pros*” for the Odyssey Program Welcome Week, Class of 2029 Odyssey Scholars
- February 2026 – **Faculty Member**, Elon University Advancing Equity Requirement (AER) Committee, June 2026
- Every Spring semester **Presenter and Interviewer**, Scholarship Weekend (for potential Honors Fellows and Elon College Fellows), Elon University
- Fall 2024 **Faculty Member**, Scholarship Statement Review (Ad-Hoc) Committee, Elon University
- August 2024 **Faculty Representative**, Annual LGBTQIA+ New Student Welcome, Elon University
- August 2023 – **Faculty Member**, Elon University Academic Standing Committee, Elon University
- July 2025

Service to the College of Arts & Sciences and the Department of Biology

- Spring 2024 – **Faculty Tour Guide** of the McMichael Science Building for prospective Biology majors and their families (~1-2 tours per week; 30 min. each)
- current

Fall 2024 – current	Liaison for the Biology Department , Digest Stories for the College of Arts and Sciences monthly eNewsletters
Fall 2024 – Spring 2025	Liaison for the Biology Department , Inclusive Excellence in STEM education group (formerly funded by an HHMI Diversity, Equity, and Inclusion in STEM grant)
October 17, 2024	Panelist , “ <i>Navigating Healthcare: ALANAM Perspectives in Science and Medicine</i> ” at El Centro, Elon University
February 2024 – present	Faculty Moderator (with Dr. Andrea Perreault), “ <i>How to Succeed in Biology</i> ” monthly development workshops, Department of Biology, Elon University
October 2023 – May 2024	Faculty Mentor to Dr. Benjamin Devlin through Duke’s Preparing Future Faculty (PFF) Program, Duke University

REVIEWER SERVICE & PROFESSIONAL MEMBERSHIPS

i. PEER REVIEWER FOR SCIENTIFIC JOURNALS (since 2016)

<i>Cells</i>	Impact Factor: 6.6
<i>Journal of Biological Chemistry</i>	Impact Factor: 4.1
<i>Journal of Virology</i>	Impact Factor: 4.1
<i>Virology Journal</i>	Impact Factor: 4.1
<i>Journal of Medical Virology</i>	Impact Factor: 3.8
<i>Virology</i>	Impact Factor: 2.6
<i>Biochemistry and Cell Biology</i>	Impact Factor: 2.3
<i>Perspectives on Undergraduate Research & Mentoring</i>	n/a

ii. PROFESSIONAL MEMBERSHIPS

2024 –	American Association of Immunologists (AAI)
2020 –	Sigma Xi, The Scientific Research Honor Society
2012 –	American Society for Virology (ASV)
2009 –	American Society for Cell Biology (ASCB)
2007 –	Beta Beta Beta (βββ) Biology Honor Society