Danielle M. Stevens

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EDUCATION AND PROFESSIONAL EXPERIENCE	
UC Berkeley, Postdoctoral Scholar	2024 - Present
UC Davis, Ph.D. Integrative Genetics and Genomics	2018 - 2024
Max Planck for Evolutionary Biology, Research Intern	2017
Oregon State University (OSU), B.S. Biochemistry and Biophysics	2014 - 2018
FELLOWSHIPS AND AWARDS	
USDA-AFRI-NIFA Postdoctoral Fellowship	2025 – 2027
Best Poster Award at XXIII Bay Area Population Genetics Conference	2024
USDA-AFRI-NIFA Predoctoral Fellowship	2021 - 2024
UC Davis Peter J. Shields & Henry A. Jastro Research Award	2019 - 2024
UA Local 290 Scholarship (Research Supply Funds)	2019 – 2022
UC Davis Graduate Studies Spring Travel Award	2023
12 th Annual US-Japan Seminar in Plant Pathology Early Career Award	2022
UCD Professor for the Future Fellow	2021
Sigma Xi, Associate Member	2020
NSF XCEDE Start-Up Computing Resource Allocation	2019
NSF Graduate Research Fellowship Program Honorable Mention	2019
Best poster award at the Northern California Computation Biology Conference	2019
OSU Culture of Writing Award in Biochemistry and Biophysics	2018
OSU & Agricultural Research Foundation Continuing Researchers Program	2017
OSU Biochemistry & Biophysics Undergraduate Travel Fund Award	2017
OSU Carol L Woodstock Scholarship in Biochemistry and Biophysics	2017

RESEARCH PUBLICATIONS

OSU Merrill Family Foundation Scholarship

OSU Summer Undergraduate Research Experience

18 publications (5 first/co-first authors) | **Authors contributed equally | ^^Student Mentee | Google Scholar

2017

2016

- 1. Stevens DM, ^^Yang D, ^^Liang T, Li T, Vega B, Coaker G, Krasileva K. mamp-ml: A deep learning approach to epitope immunogenicity in plants. On BioRxiv: https://www.biorxiv.org/content/10.1101/2025.07.11.664399v1
- 2. Leuschen-Kohl R, Roberts R, Stevens DM, Zhang N, Buchanan S, Pilikey B, Coaker G, Iyer-Pascuzzi AS. 2024. Tomato roots exhibit distinct, development-specific responses to bacterial-derived peptides. Accepted in Plant, Cell & Environment. On BioRxiv: https://doi.org/10.1101/2024.11.04.621969
- 3. Li T, Bolanos EJ, Stevens DM, Sha H, Prigozhin DM, Coaker G. 2025. Unlocking Expanded Flagellin Perception Through Rational Receptor Engineering. Nature Plants. https://doi.org/10.1038/s41477-025-02049-y

Commentary on Publication:

Armer, VJ and van der Hoorn, RAL (2025) Expanding flg22 recognition in plants. Nature Plants.

4. Alamos S, Szarzanowicz MJ, Thompson MG, Stevens DM, Kirkpatrick LD, Dee A, Pannu H, Cui R, Liu S, Nimavat M, Krasileva K, Baidoo EEK, Shih PM. 2025. Quantitative dissection of Agrobacterium DNA transfer uncovers competitive and cooperative interactions modulating pathogenesis. *Nature Plants*. https://doi.org/10.1038/s41477-025-01996-w

Commentary on Publication:

Huang, TK and Lai, EM (2025) Cooperation and antagonism in Agrobacterium-mediated transformation. *Nature Plants.*

5. <u>Stevens DM</u>, Moreno-Perez A, Weisberg AJ, Ramsing C, Fliegmann J, Zhang N, ^^Madrigal M, Martin G, Steinbrenner A, Felix G, Coaker G. 2024. Natural variation of immune epitopes reveals intrabacterial antagonism. *PNAS*.

https://doi.org/10.1073/pnas.2319499121

Highlighted in:

Plantae Plant Science Research Weekly: https://plantae.org/non-immunogenic-bacterial-epitopes-mask-recognition-of-their-immunogenic-counterparts/

IS-MPMI Interfaces: https://www.ismpmi.org/Community/Interactions/Lists/Posts/Post.aspx?ID=1321

6. Trinh J**, Li T**, Franco J**, Toruño T**, **Stevens DM****, Thapa S, Wong J, Pineda R, Avila de Dios E, Kahn TL, Seymour D, Ramadugu C, Coaker G. 2023. Variation in microbial feature perception in the Rutaceae family with immune receptor conservation in citrus. *Plant Physiology*. https://doi.org/10.1093/plphys/kiad263

Commentary on Publication:

McMillan, HM (2023) New Receptors for common MAMPs: Can wild relatives save citrus from disease? *Plant Physiology.*

7. Lewis D, <u>Stevens DM</u>, Little H, Coaker G, Bostock R. 2023. Overlapping local and systemic defense induced by an oomycete fatty acid MAMP and brown seaweed extract in tomato. *Molecular Plant-Microbe Interactions*.

https://doi.org/10.1094/MPMI-09-22-0192-R

8. <u>Stevens DM</u>, ^^Tang A, Coaker G. 2021. A genetic toolkit for investigating *Clavibacter*: markerless deletion, permissive site identification and an integrative plasmid. *Molecular Plant-Microbe Interactions*.

https://doi.org/10.1094/MPMI-07-21-0171-TA

- 9. Franco JY, Thapa SP, Pang Z, Gurung FB, Liebrand T, <u>Stevens DM</u>, Anacona V, Wang N, Coaker G. 2020. Citrus vascular proteomics highlights the role of peroxidases and serine proteases during Huanglongbing disease progression. *Molecular and Cellular Proteomics*. https://doi.org/10.1074/mcp.RA120.002075
- Lei L, <u>Stevens DM</u>, Coaker GL. 2020. Phosphorylation of the Pseudomonas effector AvrPtoB by Arabidopsis SnRK2.8 is required for bacterial virulence. *Molecular Plant*. https://doi.org/10.1016/j.molp.2020.08.018
- 11. Savory EA**, Weisberg AJ**, <u>Stevens DM</u>, Creason AL, Fuller SL, Pearce E, Chang JH. 2020. Phytopathogenic *Rhodococcus* have diverse plasmids with few conserved virulence functions. *Frontiers in Microbiology.*

https://doi.org/10.3389/fmicb.2020.01022

- 12. Feurtey A, <u>Stevens DM</u>, Wolfgang S, Stukenbrock EH. 2019. Inter-specific gene exchange introduces high genetic variability in crop pathogen. *Genome Biology & Evolution*. https://doi.org/10.1093/gbe/evz224
- Savory EA**, Fuller SL**, Weisberg AJ**, Thomas WJ, Gordon MI, <u>Stevens DM</u>, Creason AL, Belcher MS, Serdani M, Wiseman MS, Grunwald NJ, Putnam ML, Chang JH. 2017. Evolutionary transitions between beneficial and phytopathogenic *Rhodococcus* challenge disease management. *eLife*. https://doi.org/10.7554/eLife.30925

Commentary on Publication:

Melnyk, RA and Haney, CH (2017) Plasmid-powered evolutionary transitions. *eLife* 6: e33383. Tena, G (2018) Dr. Rhodo and Mr. Coccus. *Nature Plants*.

REVIEWS AND COMMENTARY

14. Sutherland C, <u>Stevens DM</u>, Wei W, Seong K, Krasileva K. The Resistance Awakens: Natural diversity informs engineering of plant immune receptors at the DNA, RNA, and protein levels. 2025. *The Plant Cell*.

https://doi.org/10.1093/plcell/koaf109

- Sasaki Y, González-Tobón J, Hino Y, Jin C, Li T, Nguyen TAN, Oakley B, <u>Stevens DM</u>. 2023. 12th
 Japan-US Seminar in Plant Pathology Meeting Report. *Molecular Plant-Microbe Interactions*.
 https://doi.org/10.1094/MPMI-04-23-0041-MR
- Castro B**, Citterico M**, Kimura S**, <u>Stevens DM</u>, Wraczek M, Coaker G. 2021. Stress-induced reactive oxygen species compartmentalization, perception and signaling. *Nature Plants*. https://doi.org/10.1038/s41477-021-00887-0
- Lolle S**, <u>Stevens DM</u>**, Coaker GL. 2020. Plant NLR triggered immunity: From receptor activation to downstream signaling. *Current Opinion in Immunology*. https://doi.org/10.1016/j.coi.2019.12.007
- Thapa S, Davis II E, Lyu Q, Weisberg A, <u>Stevens DM</u>, Clarke C, Coaker G, Chang JH. 2019. The evolution, ecology, and mechanisms of infection by Gram-positive, plant-associated bacteria. *Annual Reviews in Phytopathology*. https://doi.org/10.1146/annurev-phyto-082718-100124

ADDITIONAL MANUSCRIPTS

19. <u>Stevens DM,</u> ^^Madrigal M, Weisberg AJ, Svrerson RL, Ramsing C, Lu Y, Hwang IS, Smart C, Samac DA, Teper D, Oh CS, Ishimaru C, and Coaker G. Effector diversification and pangenome evolution of host-specific *Clavibacter* pathogens. *In Prep.* Available on Request.

TEACHING AND MENTORSHIP

UC Davis, PLP100, Biology of Plant Pathogens
UC Davis, MIC102, Introduction to Microbiology
UC Davis, BIS101, Genes and Gene Regulation
OSU, BB111, Introduction into Biochemistry and Biophysics Research
OSU, 21X, Principles of Biology – Lab Course

Winter 2023
Spring 2021
Fall 2019
10/2016 & 11/2017
Spring 2016 – 2017

Undergraduate Tatiana Liang (Microbial Biology, UC Berkeley)

Melanie Madrigal (Environmental Toxicology, UC Davis) Emily Fucarino (Molecular & Medical Microbiology, UC Davis) Jasmine Brandes (Human Development & Family Science, OSU)

Junior Specialist Andrea Tang (UC Davis)

Ph.D. Student David Yang (Computational Biology, UC Berkeley; Rotation)

Charis Ramsing (Plant Pathology, UC Davis; Rotation)

Dominique Lewis (Plant Pathology, UC Davis)

Natalie Hamada (Plant Biology, UC Davis; provided guidance on awarded USDA

NIFA Predoctoral Fellowship)

ORAL PRESENTATIONS

Machine Learning in Computational Biology (MLCB) 2025. New York City, NY.
 Joint BioEnergy Institute (JBEI). Emeryville, CA.

3. Cornell University Plant Pathology & Plant-Microbe Biology Dept. Seminar. Ithaca, NY. March 2025

 UC Davis Integrative Genetics & Genomics Seminar. Davis, CA. UC Berkeley Center for Computational Biology Retreat, Santa Cruz, CA. American Society of Plant Biology, Plant Biology 2024, Honolulu, HI. UC Davis Host-Microbe Interactions Meeting, Davis, CA. Corteva UC Davis Plant Science Symposium, Davis, CA. IS-Molecular Plant-Microbe Interactions XVIV Congress, Providence, RI. UC Davis Integrative Genetics and Genomics Colloquium, Davis, CA. 11. 12th US-Japan Seminar on Plant Pathology, Ithaca, NY. American Phytopathology Society, Plant Health 2022. Pittsburg, PA. UC Davis Plant Pathology Spring 2022 Seminar Series. American Phytopathology Society, Plant Health 2021. UC Davis Host-Microbe Interactions Meeting. 12th Annual US-Japan Seminar in Plant Pathology: Early Career Showcase. Bay Area Meetup for Tomato Plant Pathology, Berkeley, CA. UC Davis, Early Career Scientist Seminar Series, Davis, CA. 	Feb. 2025 Oct. 2024 June 2024 May 2024 April 2024 July 2023 Sept. 2022 Sept. 2022 Aug. 2022 April 2022 Online Online Online May 2019 Oct. 2018
POSTER PRESENTATIONS	
 Bay Area Plant Hub Symposium, San Francisco, CA. UC Davis Plant Science Symposium, Davis, CA. XXIII Bay Area Population Genetics Conference, Berkeley, CA. Inside Innovative Genomics Institute (IGI), Berkeley, CA. American Society of Plant Biology, Plant Biology, Honolulu, HI. American Society for Microbiology, Microbe 2022, Washington, DC. Northern California Computational Biology Symposium, Davis, CA. IS- Molecular Plant-Microbe Interactions XVIII Congress, Glasgow, UK. Celebrating Undergraduate Excellence Symposium, Corvallis, OR. Stanford Research Conference, Stanford, CA. PROFESSIONAL DEVELOPMENT AND SERVICE	April 2025 April 2025 Nov. 2024 Oct. 2024 June 2022 Oct. 2019 July 2019 May 2018 April 2017
Organizer UC Davis, SNPs and Sips Integrative Genetics & Genomics (IGG) Seminar	2023 – 2024
IS-MPMI XVIV Congress, Plant responses towards vascular pathogens and phloem-feeding insects	July 2023
Session Moderator	
12 th Annual US-Japan Seminar in Plant Pathology, Session 1: Disease APS Plant Health 2022, Genomics, Genetics, and Virulence of Plant Pathogenic Bacteria	Sept. 2022 Aug. 2022
Committees UC Davis IGG Admissions Committee UC Davis IGG Student Representative for Faculty Executive Committee UC Davis IGG Recruitment Committee OSU Biochemistry and Biophysics 50 th Anniversary Planning Committee	2021 - 2024 2022 - 2023 2019 - 2021 2017

Ad hoc Reviewer

Molecular Plant-Microbe Interactions (3), Science (1), Nature (1), Science Advances (1), Plant Communications (1), mSystems (1), Molecular Plant Pathology (1), Phytopathology (2), Proteomes (1), Physiology and Molecular Plant Pathology (1), Plant Health Progress (1), MicroPublication (1)

Professional Development & Additional Training

EMBO Computational Structural Biology Workshop

Torrey Pines Training Consortium Lab Management & Leadership Symposium

University of Washington Summer Institute in Statistical Genetics & Big Data OSU College of Science Peer Advisor OSU University Housing & Dining Services Academic Learning Assistant

Outreach

UC Davis Educational Enrichment & Outreach Programs ABRCMS Prep UC Davis EEOP Graduate School Interview Panel State of Oregon Science Olympiad Co-Judge Event Supervisor OSU College of Science Discovery Days OSU College of Science Discovery Days Co-Organizer OSU Dept. of Botany & Plant Pathology High School STEM Camp Filename: CV_New_format.docx

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Creation Date: 8/6/25 4:30:00 PM

Change Number: 4

Last Saved On: 8/7/25 8:30:00 AM Last Saved By: Danielle Stevens

Total Editing Time: 6 Minutes

Last Printed On: 8/25/25 2:55:00 PM

As of Last Complete Printing

Number of Pages: 5

Number of Words: 1,612

Number of Characters: 11,769 (approx.)