Stanford

Jennifer Stonaker

Advanced Lecturer

Writing and Rhetoric Studies

Bio

BIO

Jennifer Stonaker is an advanced lecturer in the Program in Writing and Rhetoric. She has a PhD in plant biology from UC Berkeley, where she employed genetic and bioinformatic tools to study gene regulation in maize. Her current research focuses on science communication and writing pedagogy, particularly in how electronic portfolios and reflection can promote learning. She is also interested in science outreach, having previously worked as a science instructor and curriculum developer at the Tech Museum in San Jose and the Cal Academy of Sciences in San Francisco.

ACADEMIC APPOINTMENTS

- Advanced Lecturer, Writing and Rhetoric Studies

ADMINISTRATIVE APPOINTMENTS

- Coordinator of Pedagogical Technology, Program in Writing and Rhetoric, (2021- present)
- Co-chair, Lecturer Affairs Committee, Program in Writing and Rhetoric, (2021-2022)
- Writing Specialist, Program in Human Biology, (2019-2020)
- Coordinator, Notation in Science Communication, (2014-2018)
- Co-chair, Curriculum Committee, Program in Writing and Rhetoric, (2016-2018)

PROFESSIONAL EDUCATION

- PhD, University of California, Berkeley , Plant Biology and Genetics
- BS, University of Texas at Austin , Molecular Biology
- BA, University of Texas at Austin , Plan II Honors

LINKS

- Arizona Garden Exhibit: https://exhibits.stanford.edu/arizonagarden
- Stanford SciCast: https://stanfordscicast.wordpress.com

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

SPECIALIZATION: Electronic Portfolios; Science Communication; Science Storytelling

Teaching

COURSES

2025-26

- Stanford Science Podcast: EARTHSYS 157, PWR 91JS (Aut)
- Writing & Rhetoric 1: The Rhetoric of Plants: PWR 1JSA (Win, Spr)
- Writing & Rhetoric 2: In Science We Trust: PWR 2JS (Aut)

2024-25

- Writing & Rhetoric 1: The Rhetoric of Plants: PWR 1JSA (Spr)
- Writing & Rhetoric 2: In Science We Trust: PWR 2JS (Aut, Win)

2023-24

- Writing & Rhetoric 1: The Rhetoric of Plants: PWR 1JSA (Spr)
- Writing & Rhetoric 2: In Science We Trust: PWR 2JS (Aut, Win)

2022-23

- Communicating Science in Public Spaces: PWR 91JSA (Spr)
- Creating Your Digital Self: The What, How, and Why of Building an Online Presence: PWR 91OID (Win)
- Writing & Rhetoric 2: In Science We Trust: PWR 2JS (Aut)

Publications

PUBLICATIONS

- **Science Communication across Disciplines: Reflecting on STEM Identity Building through Notation in Science Communication ePortfolios** *Across the Disciplines: A Journal of Language, Learning and Academic Writing*
  Alfano, C., Polk, E., Stonaker, J.
  2023; 20 (3/4)

- **Metacognition across the Curriculum: Building Capstone ePortfolios in Stanford University's Notation in Science Communication** *ePortfolio as Curriculum*
  Stonaker, J., Druckman, J., Carpenter, R., Chen, H. L.
  edited by Yancey, K. B.
  2019

- **required to maintain repression2 is a novel protein that facilitates locus-specific paramutation in maize.** *The Plant cell*
  Barbour, J. R., Liao, I. T., Stonaker, J. L., Lim, J. P., Lee, C. C., Parkinson, S. E., Kermicle, J., Simon, S. A., Meyers, B. C., Williams-Carrier, R., Barkan, A., Hollick, J. B.
  2012; 24 (5): 1761-75

- **Diversity of Pol IV function is defined by mutations at the maize rmr7 locus.** *PLoS genetics*
  Stonaker, J. L., Lim, J. P., Erhard, K. F., Hollick, J. B.
  2009; 5 (11): e1000706

- **RNA polymerase IV functions in paramutation in Zea mays.** *Science (New York, N.Y.)*
  Erhard, K. F., Stonaker, J. L., Parkinson, S. E., Lim, J. P., Hale, C. J., Hollick, J. B.
  2009; 323 (5918): 1201-5

- **A novel Snf2 protein maintains trans-generational regulatory states established by paramutation in maize.** *PLoS biology*
  Hale, C. J., Stonaker, J. L., Gross, S. M., Hollick, J. B.
  2007; 5 (10): e275