

Jennifer Tsang, Ph.D.

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SKILLS AND QUALIFICATION SUMMARY

Science communication • Science blogging • WordPress • Photography • Photo editing • Social media • Experimental Design • Project Management • Microbiology • Molecular Genetics • High Throughput Screening • Electron Microscopy • Basic Programming (Unix, Python, R) • Academic Writing and Publication • Academic Oral Presentation • Mentoring and Teaching

EDUCATION

- Postdoctoral Research Fellow, Beth Israel Deaconess Medical Center and Harvard Medical School, Boston, MA (2015 – present)
- Ph.D. Microbiology, University of Georgia, Athens, GA (2014)
- B.S. Microbiology, B.A. Psychology, University of Rochester, Rochester, NY (2009)

SCIENCE COMMUNICATION EXPERIENCE

- Science Writer (internship), Marine Biological Labs (June – July 2017)
 - Write content for blog, press releases, and social media sites for the Communications Office
- [The Microbial Menagerie](#) (2016 – present)
 - Creator and blogger: microbiology stories and profiles of microbiologists (1-6 posts per month)
- American Society for Microbiology Microbial Sciences blog (2017 – present)
 - Write and edit content for the blog
 - Contributor: “[Out of Sight, but Not out of Mind: The Microbial World of Caves](#)”
- [Tiny Science Letters](#) (2017 – present)
 - Developed and organize weekly newsletter from scientists to non-scientists
 - Edit submitted letters, maintain social media accounts
- [Science Seeker](#) (2016 – present)
 - Editor: Choose articles to feature weekly on the Science Seeker website in Ecology and Policy
- Small Things Considered, American Society for Microbiology (2017)
 - Contributor: “[Staying Safe in Space](#)”
- Signal to Noise Magazine (2016)
 - Contributor: “[Microbial Art Brings Microscopic Life into View](#)”
- [PostDoc Journal](#) (2015 – present)
 - Editor-in-chief (2017 – present): Promotions and social media, recruitment of editors and writers, contribute and edit articles
 - Editor (2015 – 2017): Contribute articles, edit submissions in diverse disciplines
- Scientific Writing and Publishing Institute, American Society for Microbiology (2012)

RESEARCH EXPERIENCE

- Postdoctoral Research Fellow (2015 – present)
 - Advisor: Dr. James E. Kirby
 - Drug resistance mechanisms in colistin- and carbapenem-resistant *Enterobacteriaceae*
- Graduate Research Assistant (2009 – 2014)
 - Advisor: Dr. Timothy R. Hoover
 - Dissertation title: Influence of the flagellar basal body on transcription of the RpoN flagellar regulon in *Helicobacter pylori*

TEACHING AND MENTORING EXPERIENCE

- Research Experience for Undergraduates (REU) Program Teaching Assistant (2012)
- Laboratory mentor for REU and UGA undergraduate and rotation students (2010 – 2014)

- Experimental Microbiology Lab Teaching Assistant (2011 – 2012)

SELECTED ACADEMIC PUBLICATIONS

- Martinez, LE, JM Hardcastle, J Wang, Z Pincus, **J Tsang**, TR Hoover, R Bansil and NR Salama. (2016) *Helicobacter pylori* strains vary cell shape and flagellum number to maintain robust motility in viscous environments. *Molecular Microbiology*, 99: 88-110.
- **Tsang, J**, T Hirano, TR Hoover and JL McMurry. (2015) *Helicobacter pylori* FlhA binds the sensor kinase and flagellar gene regulatory protein FlgS with high affinity. *Journal of Bacteriology*. 197: 1886-1892.
- **Tsang, J** and TR Hoover. (2015) Basal body structures differentially affect transcription of RpoN- and FliA-dependent flagellar genes in *Helicobacter pylori*. *Journal of Bacteriology*. 197: 1921-1930.
- **Tsang, J** and TR Hoover. (2014) Themes and Variations: Regulation of RpoN-Dependent Flagellar Genes among Diverse Bacterial Species. *Scientifica*. vol. 2014.
- **Tsang, J** and TR Hoover. (2014) Requirement of the flagellar protein export apparatus component FliO for optimal expression of flagellar genes in *Helicobacter pylori*. *Journal of Bacteriology*. 196: 2709-2717.
- **Tsang, J**, TG Smith, L Pereira, and TR Hoover. (2013) Insertion mutations within *Helicobacter pylori flhA* reveal strain differences in RpoN-dependent gene expression. *Microbiology*. 159:58-67.
- Pereira, L, **J Tsang**, J Mrázek, and TR Hoover. (2011) The zinc-ribbon domain of *Helicobacter pylori* HP0958: requirement for RpoN accumulation and possible roles of homologs in other bacteria. *Microbial Informatics and Experimentation*. 1:8.

MEETINGS AND PRESENTATIONS

- American Society for Microbiology Meeting, New Orleans, LA (2017) – poster presentation
- AAAS Annual Meeting, Boston, MA (2017) – attendee
- Boston Bacterial Meeting, Boston, MA (2016) – poster presentation
- Harvard Catalyst Reactor Pilot Grant Awardee Meeting, Boston, MA (2015) – oral presentation
- Gordon Research Seminar and Conference, Ventura, CA (2014) – poster and oral presentation
- Kennesaw State University, Molecular Biosciences Seminar Series, Kennesaw, GA (2013) – oral presentation
- American Society for Microbiology Meeting, San Francisco, CA (2012) – poster presentation

HONORS AND AWARDS

- PostDoc Journal Postdoc of the Month Award (2017)
- Gordon Research Seminar Travel Award (2014)
- American Society for Microbiology Travel Grant (2012)
- University of Georgia Graduate School Assistantship (2009 – 2011)
- University of Rochester Dean's Scholarship (2005 – 2009)

OUTREACH AND COMMUNITY EXPERIENCES

- Twitter SciParty host (2017)
- Rotation curator for Real Scientists (2017) and IAmSciComm (2016) Twitter accounts
- Events Chair, Microbiology Graduate Student Association (2011 – 2012)
- Georgia Junior Science and Humanities Symposium Judge (2010 – 2013)
- Georgia State Science and Engineering Fair Judge (2011 – 2012)

PROFESSIONAL ORGANIZATION MEMBERSHIPS

- American Society for Microbiology
- American Association for the Advancement of Science