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Academic positions	2021 - 2019 - 2021 2015 - 2018	Assistant Professor, Tufts University Postdoc, UC Berkeley, Depart Postdoc, Stanford University	9 9
Education	2014 2011 2009 2005	PhD, Bioinformatics, University, MS, Computer Science, University, MS, Biophysical Sciences, University, BA, Physics, Carleton College	niversity of Chicago
Honors & Fellowships	2016 - 2018 2015 - 2016 2014 2014 2013 2012 - 2014 2005 2005 2005 2005 2005	Teaching Assistant Excellence Achievement Rewards for Co Distinction in the physics ma Phi Beta Kappa (academic h	Stanford University ellence in human genetics research, semi-finalist te Award, UCSF ollege Scientists Fellow, UCSF ajor, Carleton College nonor society), Carleton College honor society), Carleton College on College

Publications

Articles & editorials

- URICCHIO LH[†]. Evolutionary perspectives on polygenic selection, missing heritability, and GWAS. Human Genetics, 139(1):5-21, Jan 2020.
- 2. Hernandez RD, Uricchio LH, Hartman K, Ye J, Dahl A, Zaitlen N. Ultrarare variants drive substantial cisheritability of human gene expression. *Nature Genetics*, 51:1349–1355, Sep 2019.
- 3. URICCHIO LH[†], Petrov DA, Enard D[†]. Exploiting selection at linked stites to infer the rate and strength of adaptation.

 Nature Ecology & Evolution, 3:977–984, June 2019.
- 4. Severson AL[‡], Uricchio LH[‡], Arbisser IM[‡], Glassberg EC, Rosenberg NA. Analysis of author gender in TPB, 1991–2018. Theoretical Population Biology, 127:1–6, June 2019.
- GIGNOUX CR, TORGERSON DG, PINO-YANES M, URICCHIO LH, GALANTER J et al. An admixture mapping metaanalysis implicates genetic variation at 18q21 with asthma susceptibility in latinos. Journal of Allergy and Clinical Immunology, 143(3):957–969, Mar 2019.
- 6. URICCHIO LH^{‡†}, KITANO HC[‡], GUSEV A, ZAITLEN NA[†]. An evolutionary compass for detecting polygenic selection and mutational bias. *Evolution Letters*, 3(1):69–79, Feb 2019.
- 7. URICCHIO LH[†], DAWS SC, SPEAR ER, MORDECAI EA[†]. Priority effects and non-hierarchical competition shape species composition in a complex grassland community. *The American Naturalist*, 193(2):213–226, Feb 2019.
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- 10. URICCHIO LH[†], ZAITLEN NA, YE CJ, WITTE JS, HERNANDEZ RD[†]. Selection and explosive growth alter genetic architecture and hamper the detection of causal rare variants. *Genome Research*, 26:863–873, July 2016.
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- 14. URICCHIO LH, CHONG JX, ROSS KD, OBER C, NICOLAE DL. Accurate imputation of rare and common variants in a founder population from a small number of sequenced individuals. *Genetic Epidemiology*, 36(4):312–319, May 2012.
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- 16. MILLER LS, PIETRAS EM, **URICCHIO LH**, HIRANO K, RAO S et al. Inflammasome-mediated production of IL-1 β is required for neutrophil recruitment against staphylococcus aureus in vivo. *Journal of Immunology*, 179(10):6933–6942, Nov 2007.
- 17. Pattanayak AK, Brooks DWC, de La Fuente A, **Uricchio L**, Holby E *et al.* Coarse-grained entropy decrease and phase-space focusing in hamiltonian dynamics. *Physical Review A*, 72(1):013406, Jul 2005.

‡ denotes equal contributions; † denotes corresponding author

In progress

1. Castellano D, Uricchio LH, Munch K, Enard D. Viruses rule over adaptation in conserved human proteins. to be submitted: preprint at https://www.biorxiv.org/content/10.1101/555060v1, 2019.

Dissertation

 URICCHIO LH. Models and forward simulations of selection, human demography, and complex traits. UNIVERSITY OF CALIFORNIA, SAN FRANCISCO, 2014.

Teaching	2018	Co-instructor, Evolutionary genetics (BIOL 118), San Jose State University*
	2017	Co-instructor, Ecology (BIOL 160), San Jose State University*
		st semester-long undergraduate courses for which I led 40-50% of instructional time.
	2017	Co-founder, Stanford postdoc pedagogy miniseries, Stanford University
	2015	Instructor, Undergraduate Biology Exploration, Stanford University
	2016-2017	Guest lecturer (twice), Evolution, Stanford University
	2014	Graduate teaching assistant, Computational Evolutionary Genomics, UCSF
	2013	Graduate student instructor, Computational Biology, UC Berkeley
	2009	Guest lecturer, Genes, Networks, and Cells, University of Chicago
	2003-2004	Teaching assistant, tutor, & grader, Introduction to Physics, Classical & Computational Mechanics, Contemporary Experimental Physics, Carleton College
Mentoring	2016	Student research co-mentor to Alan Aw, Rosenberg Lab
1,10110011118	2013	Student research mentor to Isela Hernandez, Biological Health Sciences Internship Program
	2010	Student research mentor to Sam Neal, Summer Link High School Program
	2006-2007	Co-supervisor/trainer of undergraduate lab members, UCLA
Service	2013-	Invited reviewer for Genetics, Nature Genetics, BMC Evolutionary Biology, PLoS Genet-
		ics, Nature Ecology & Evolution, Molecular Biology & Evolution, Genome Biology & Evolution, Molecular Ecology, Heredity, Theoretical Population Biology, PLoS ONE, G3, and IEEE/ACM Transactions on Computational Biology and Bioinformatics
	2016	Committee member & session leader, Stanford Postdoc Pedagogy Journal Club
	2015-2016	Committee member, Stanford CEHG diversity outreach committee
		,

2016-2018	NIH IRACDA Fellow, Stanford & SJSU (\$53,600 per year)
2016-2017	Stanford Teaching & Mentoring Academy Award (\$6,870)
2015-2016	Stanford CEHG Postdoctoral Fellowship (\$50,000)
2012-2014	UCSF Achievement Rewards for College Scientists Fellow (\$12,000 per year)
2014	UCSF Discovery Fellow (\$4,000 for travel & research over 2 years)
	2016-2017 2015-2016 2012-2014

Presentations

- 1. Adaptation and constraint through the lens of genome-wide association studies. *University of Wisconsin, Madison, WI.* Seminar, 2020.
- Adaptation and constraint through the lens of genome-wide association studies. Temple University, Philadelphia, PA. Seminar, 2020.
- 3. Adaptation and constraint through the lens of genome-wide association studies. *Tufts University, Somerville, MA*. **Seminar**, 2020.
- Adaptation and constraint through the lens of genome-wide association studies. Syracuse University, Syracuse, NY. Seminar, 2020.
- 5. Adaptation and constraint through the lens of genome-wide association studies. Vanderbilt University, Nashville, TN. Seminar, 2020.
- 6. Evolutionary perspectives on human complex traits and missing heritability. CSUN, Northridge, CA. Seminar, 2020.
- 7. Can modern genomic sequence data fulfill their evolutionary potential? *Indiana University, Bloomington, IN.* **Seminar**, 2020.
- 8. Statistical inference of evolutionary processes from genomic data. Macalester College, St. Paul, MN. Seminar, 2019.
- 9. Can modern genomic sequence data fulfill their evolutionary potential? Cornell University, Ithaca, NY. Seminar, 2019.
- 10. Exploiting selection at linked stites to infer the rate and strength of adaptation. Evolution Meeting, Providence, RI. Talk, 2019.
- 11. Genome-scale inference of adaptive evolution: new approaches for answering old questions. *Boise State University, Boise, ID.* Seminar, 2019.
- 12. Genome-scale inference of adaptive evolution: new approaches for answering old questions. *Chapman University, Orange, CA.* Seminar, 2019.
- 13. Evolutionary processes shaping the human genome. Linfield College, McMinnville, OR. Seminar, 2018.
- 14. Scientific teaching workshops for stanford postdocs. Stanford Education Day, Stanford, CA. Talk, 2018.
- 15. Modulation of adaptation rate by background selection in the human genome. Bay Area Population Genomics Meeting, Santa Cruz, CA. Talk, 2018.
- Modulation of adaptation rate by background selection in the human genome. American Society of Naturalists Meeting, Monterey, CA. Talk, 2018.
- 17. Designing and implementing scientific teaching workshops for postdocs. Stanford Teaching and Mentoring Academy seminar series, Stanford, CA. Talk., 2018.
- 18. An analytical upper bound on the number of loci required for all splits of a species tree to appear in a set of gene trees. RECOMB Comparative Genomics Meeting, Montreal, Canada. Talk, 2016.
- 19. Detecting causal genetic variation in populations with complex evolutionary histories. *University of Washington, Bothell, WA.* Seminar, 2016.
- Explosive growth and the genetic architecture of polygenic traits under selection. American Society of Naturalists Meeting, Monterey, CA. Talk, 2016.
- 21. Selection and explosive growth may hamper the performance of rare variant association tests. Bay Area Population Genomics Meeting, Stanford, CA. Talk, 2015.
- 22. Recent demography and natural selection hamper the power of rare variant association tests. American Society of Human Genetics Meeting, San Diego, CA. Talk, 2014.
- 23. Model-based simulations of selection and demography with implications for heritable phenotypes and rare variant association tests. UC Berkeley Center for Theoretical Evolutionary Genomics, Berkeley, CA. Talk, 2014.
- 24. Simulations and inference of simultaneous positive and negative selection. Society of Molecular Biology and Evolution Meeting, San Juan, Puerto Rico. Poster, 2014.
- 25. Parameter rescaling for forward simulations of recurrent hitchhiking. Bay Area Population Genomics Meeting, San Francisco, CA. Poster, 2013.

- 26. Forward simulations of recurrent selection and demographics with rescaled parameters. American Society of Human Genetics Meeting, Boston, MA. Poster, 2013.
- 27. Accurate pedigree-based imputation. Department of Human Genetics, University of Chicago, Chicago, IL. Seminar, 2011.

References

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