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Education	2015 - 2014 2011 2009 2005	Postdoc, UC Berkeley & Sta PhD, Bioinformatics, Univer MS, Computer Science, Univ MS, Biophysical Sciences, U BA, Physics, Carleton College	sity of California, San Francisco versity of Chicago niversity of Chicago
Honors & Fellowships	2016 - 2018 2015 - 2016 2014 2014 2013 2012 - 2014 2005 2005 2005 2005 2005 2005	Teaching Assistant Excellent Achievement Rewards for Co Distinction in the physics m Phi Beta Kappa (academic l	Stanford University  ellence in human genetics research, semi-finalist ce Award, UCSF  bllege Scientists Fellow, UCSF ajor, Carleton College nonor society), Carleton College honor society), Carleton College n College

## **Publications**

Articles & editorials

- 1. HERNANDEZ RD, URICCHIO LH, HARTMAN K, YE J, DAHL A, ZAITLEN N. Ultrarare variants drive substantial cisheritability of human gene expression. *Nature Genetics*, in press, Sep 2019.
- URICCHIO LH<sup>†</sup>. Evolutionary perspectives on polygenic selection, missing heritability, and GWAS. Human Genetics, in press, June 2019.
- 3. URICCHIO LH<sup>†</sup>, PETROV DA, ENARD D<sup>†</sup>. Exploiting selection at linked stites to infer the rate and strength of adaptation.

  Nature Ecology & Evolution, 3:977–984, June 2019.
- 4. Severson AL<sup>‡</sup>, Uricchio LH<sup>‡</sup>, Arbisser IM<sup>‡</sup>, Glassberg EC, Rosenberg NA. Analysis of author gender in TPB, 1991–2018. Theoretical Population Biology, 127:1–6, June 2019.
- 5. 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 Immunol*ogy, 143(3):957–969, Mar 2019.
- 6. URICCHIO LH<sup>‡†</sup>, KITANO HC<sup>‡</sup>, GUSEV A, ZAITLEN NA<sup>†</sup>. An evolutionary compass for detecting polygenic selection and mutational bias. *Evolution Letters*, 3(1):69–79, Feb 2019.
- 7. URICCHIO LH<sup>†</sup>, DAWS SC, SPEAR ER, MORDECAI EA<sup>†</sup>. Priority effects and non-hierarchical competition shape species composition in a complex grassland community. *The American Naturalist*, 193(2):213–226, Feb 2019.
- 8. Goldberg A, Uricchio LH, Rosenberg NA. Natural selection in human populations. Oxford Bibliographies in Evolutionary Biology, Aug 2018.
- 9. URICCHIO LH, WARNOW T, ROSENBERG NA. 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. *BMC Bioinformatics*, 17(14):241–250, Nov 2016.
- 10. URICCHIO LH<sup>†</sup>, ZAITLEN NA, YE CJ, WITTE JS, HERNANDEZ RD<sup>†</sup>. Selection and explosive growth alter genetic architecture and hamper the detection of causal rare variants. *Genome Research*, 26:863–873, July 2016.
- 11. URICCHIO LH, TORRES R, WITTE JS, HERNANDEZ RD. Population genetic simulations of complex phenotypes with implications for rare variant association tests. *Genetic Epidemiology*, 39(1):35–44, Jan 2015.
- 12. URICCHIO LH, HERNANDEZ RD. Robust forward simulations of recurrent hitchhiking. Genetics, 197(1):221–236, May 2014.

- 13. Maher MC<sup>‡</sup>, **Uricchio LH**<sup>‡</sup>, Torgerson DG, Hernandez RD. Population genetics of rare variants and complex diseases. *Human Heredity*, 74(3-4):118–128, Apr 2013.
- 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.
- 15. ÇALIŞKAN M, CHONG JX, **URICCHIO L**, ANDERSON R, CHEN P *et al.* Exome sequencing reveals a novel mutation for autosomal recessive nonsyndromic mental retardation in the TECR gene on chromosome 19p13. *Human Molecular Genetics*, 20(7):1285–1289, Apr 2011.
- 16. MILLER LS, PIETRAS EM, **URICCHIO LH**, HIRANO K, RAO S et al. Inflammasome-mediated production of IL-1 $\beta$  is required for neutrophil recruitment against staphylococcus aureus in vivo. *Journal of Immunology*, 179(10):6933–6942, Nov 2007.
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## ‡ 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.

Co-instructor, Ecology (BIOL 160), San Jose State University*  **semester-long undergraduate courses for which I led 40-50% of instructional time.  2017 Co-founder, Stanford postdoc pedagogy miniseries, Stanford University  2016 Instructor, Undergraduate Biology Exploration, Stanford University  2016-2017 Guest lecturer (twice), Evolution, Stanford University  2014 Graduate teaching assistant, Computational Evolutionary Genomics, UCSF  2013 Graduate teaching assistant, 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  2013 Student research mentor to Isela Hernandez, Biological Health Sciences Internship Program  2010 Student research mentor to Sam Neal, Summer Link High School Program  2010 Co-supervisor/trainer of undergraduate lab members, UCLA  Service  2013- Invited reviewer for Genetics, Nature Genetics, BMC Evolutionary Biology, PLoS Genetics, Nature Ecology & Evolution, Molecular Biology & Evolution, Molecular Ecology, Heredity, Theoretical Population Biology, PLoS ONE, G3: Genes, Genomes, Genetics, 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  Competitive  Funding  2016-2018 NIH IRACDA Fellow, Stanford & SJSU (\$53,600 per year)  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)	Teaching	2018	Co-instructor, Evolutionary genetics (BIOL 118), San Jose State University*
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2017   Co-founder, Stanford postdoc pedagogy miniseries, Stanford University   2015   Instructor, Undergraduate Biology Exploration, Stanford University   2014   Graduate teaching assistant, Computational Biology, UC Berkeley   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   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 Genetics, Nature Ecology & Evolution, Molecular Biology & Evolution, Molecular Ecology, Heredity, Theoretical Population Biology, PLoS G3: Genes, Genomes, Genetics, and IEEE/ACM Transactions on Computational Biology and Bioinformatics   2016   Committee member, Stanford CEHG diversity outreach committee   2015-2016   Committee member, Stanford CEHG diversity outreach committee   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)			
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#### Presentations

- 1. Can modern genomic sequence data fulfill their evolutionary potential? Cornell University, Ithaca, NY. Seminar, 2019.
- 2. Statistical inference of evolutionary processes from genomic data. Macalester College, St. Paul, MN. Seminar, 2019.
- 3. Exploiting selection at linked stites to infer the rate and strength of adaptation. Evolution Meeting, Providence, RI. Talk, 2019.
- Genome-scale inference of adaptive evolution: new approaches for answering old questions. Boise State University, Boise, ID. Seminar, 2019.
- 5. Genome-scale inference of adaptive evolution: new approaches for answering old questions. *Chapman University, Orange, CA.* Seminar, 2019.
- 6. Evolutionary processes shaping the human genome. Linfield College, McMinnville, OR. Seminar, 2018.
- 7. Scientific teaching workshops for stanford postdocs. Stanford Education Day, Stanford, CA. Talk, 2018.
- 8. 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.
- 10. Designing and implementing scientific teaching workshops for postdocs. Stanford Teaching and Mentoring Academy seminar series, Stanford, CA. Talk., 2018.
- 11. 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.
- 12. 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.
- 14. Selection and explosive growth may hamper the performance of rare variant association tests. Bay Area Population Genomics Meeting, Stanford, CA. Talk, 2015.
- 15. Recent demography and natural selection hamper the power of rare variant association tests. American Society of Human Genetics Meeting, San Diego, CA. Talk, 2014.
- 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.
- 17. Simulations and inference of simultaneous positive and negative selection. Society of Molecular Biology and Evolution Meeting, San Juan, Puerto Rico. Poster, 2014.
- 18. Parameter rescaling for forward simulations of recurrent hitchhiking. Bay Area Population Genomics Meeting, San Francisco, CA. Poster, 2013.
- 19. Forward simulations of recurrent selection and demographics with rescaled parameters. American Society of Human Genetics Meeting, Boston, MA. Poster, 2013.
- 20. Accurate pedigree-based imputation. Department of Human Genetics, University of Chicago, Chicago, IL. Seminar, 2011.

# References

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