Contact	Department of Integrative Biology University of California, Berkeley VLSB 5017 Berkeley, CA 94720 (310) - 498 - 8608, uricchio@berkeley.edu		https://scholar.google.com/citations?user=XyVUpZYAAAAJ https://uricchio.github.io/
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[†]. Evolutionary perspectives on polygenic selection, missing heritability, and GWAS. Human Genetics, in press, June 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.
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- 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.
- 8. Goldberg A, Uricchio LH, Rosenberg NA. Natural selection in human populations. Oxford Bibliographies in Evolutionary Biology, Aug 2018.
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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.
- 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 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.

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*
*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 mentor to Isela Hernandez, Biological Health Sciences Internship Program 2010 Student research mentor to Sam Neal, Summer Link High School 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 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)	J	2017	, , , , , , , , , , , , , , , , , , , ,
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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 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 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 2016-2018 NIH IRACDA Fellow, Stanford & SJSU (\$53,600 per year) 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)		2016-2017	Guest lecturer (twice), Evolution, Stanford University
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Mentoring 2016 Student research co-mentor to Alan Aw, Rosenberg Lab		2013	Graduate student instructor, Computational Biology, UC Berkeley
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Service 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 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) 5tanford 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)		2003-2004	
Service 2013- Invited reviewer for Genetics, Nature Genetics, BMC Evolutionary Biology, PLoS Genetics, Nature Ecology & Evolution, Molecular Biology & 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 2016-2017 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)	Mentoring	2016	Student research co-mentor to Alan Aw, Rosenberg Lab
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 Committee member, Stanford CEHG diversity outreach committee Competitive Funding 2016-2018 NIH IRACDA Fellow, Stanford & SJSU (\$53,600 per year) 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)		2013	Student research mentor to Isela Hernandez, Biological Health Sciences Internship Program
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Competitive Funding 2016-2017 Stanford CEHG Postdoctoral Fellowship (\$50,000) 2015-2016 Committee member & session leader, Stanford Postdoc Pedagogy Journal Club Committee member, Stanford CEHG diversity outreach committee NIH IRACDA Fellow, Stanford & SJSU (\$53,600 per year) 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)	Service	2013-	netics, Nature Ecology & Evolution, Molecular Biology & Evolution, Molecular Ecology, Heredity, Theoretical Population Biology, PLoS ONE, G3: Genes, Genomes, Genetics, and
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Presentations

- 1. 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.
- Genome-scale inference of adaptive evolution: new approaches for answering old questions. Chapman University, Orange, CA. Seminar, 2019.
- 4. Evolutionary processes shaping the human genome. Linfield College, McMinnville, OR. Seminar, 2018.
- 5. Scientific teaching workshops for stanford postdocs. Stanford Education Day, Stanford, CA. Talk, 2018.
- 6. 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.
- 8. Designing and implementing scientific teaching workshops for postdocs. Stanford Teaching and Mentoring Academy seminar series, Stanford, CA. Talk., 2018.
- 9. 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.
- 10. Detecting causal genetic variation in populations with complex evolutionary histories. *University of Washington, Bothell, WA.* Seminar, 2016.
- 11. Explosive growth and the genetic architecture of polygenic traits under selection. American Society of Naturalists Meeting, Monterey, CA. Talk, 2016.
- 12. Selection and explosive growth may hamper the performance of rare variant association tests. Bay Area Population Genomics Meeting, Stanford, CA. Talk, 2015.
- 13. Recent demography and natural selection hamper the power of rare variant association tests. American Society of Human Genetics Meeting, San Diego, CA. Talk, 2014.
- 14. 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.
- 15. Simulations and inference of simultaneous positive and negative selection. Society of Molecular Biology and Evolution Meeting, San Juan, Puerto Rico. Poster, 2014.
- Parameter rescaling for forward simulations of recurrent hitchhiking. Bay Area Population Genomics Meeting, San Francisco, CA. Poster, 2013.
- 17. Forward simulations of recurrent selection and demographics with rescaled parameters. American Society of Human Genetics Meeting, Boston, MA. Poster, 2013.
- 18. Accurate pedigree-based imputation. Department of Human Genetics, University of Chicago, Chicago, IL. Seminar, 2011.

References

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