Matteo Audrel Vaiente

ARIZONA STATE UNIVERSITY
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EDUCATION

Year(s)	Degree	Institution	Field
2016 – 2020	PhD	Arizona State University, Tempe, AZ	Biomedical Informatics (Advisor: Dr. Matthew Scotch)
			Expected: September, 2020
2007 – 2012	BSc	University of Arizona, Tucson, AZ	Public Health
2007 – 2012	BSc	University of Arizona, Tucson, AZ	Molecular & Cellular Biology

PROFESSIONAL EXPERIENCE

Year(s)	Institution	Role
2020	College of Health Solutions, ASU, Tempe, AZ	Graduate Research Assistant & PhD candidate
		Project: *Learning RNA viral disease dynamics from molecular sequences*
2018	EcoHealth Alliance, NYC, NY	EcoHealthNet Research Exchange Fellow
		Project: *Contaxa (R package)*
2016 – 2020	College of Health Solutions, ASU, Tempe, AZ	Graduate Research Assistant & PhD student
2014 – 2016	Arizona State Public Health Laboratory, Phoenix AZ	Public Health Scientist II: Virology
2013 – 2014	Phoenix Children's Hospital, Phoenix, AZ	Clinical Microbiologist/Medical Laboratory Scientist I

VOLUNTEER EXPERIENCE

Year(s)	Institution	Title
2018 – Current	Arizona State University, Tempe, AZ	Compliance Officer, *Environmental Health and Safety Department*

TEACHING EXPERIENCE

Year(s)	Institution	Title
2019	Arizona State University, Tempe, AZ	Teaching Assistant, *Appl. Biostatistics in Medicine and Informatics*
2017	Arizona State University, Tempe, AZ	Teaching Assistant, *Biomedical Informatics Research Methods I*
2012 – 2013	California Polytechnic State University, San Luis Obispo, CA	Teaching Assistant, *Introductory Molecular Biology Lab*

SCHOLARSHIPS, GRANTS, FELLOWSHIPS & AWARDS

Year(s)	Type	Title
2020	Fellowship	Arizona State University Graduate College Fellowship
2019	Grant	Venture Devils eSeed Challenge Grant
2018	Fellowship	PLuS International Interdisciplinary Research Fellowship
2018	Fellowship	EcoHealthNet Research Exchange Fellowship (NSF-funded)
2018	Fellowship	Arizona State University Graduate College Fellowship
2016 – 2018	Grant	NIH Diversity Supplement (PA-15-322)
2013	Award	Western Users of SAS Software (WUSS) Academic Scholar Award
2013	Travel Grant	California State University Travel Award
2011	Award	NSF Western Alliance to Expand Student Opportunities Award
2010	Award	University of Arizona UROC Research Award
2007 – 2011	Tuition Scholarship	University of Arizona President's Award for Excellence

MANUSCRIPTS

1. **Vaiente, M;** Scotch, M. Virus sequences implicate immune imprinting as a key driver of age-associated diffusion of influenza H3N2 during the 2016-17 US epidemic. *PLoS Computational Biology (under review).* 2020.
2. **Vaiente, M;** Scotch, M. Going back to the roots: evaluating Bayesian phylogeographic models with discrete trait uncertainty. *Infection, Genetics and Evolution (in press).* Nov 2020.
3. **Vaiente, M;** Scotch, M. Diversity, dilution and WNV: interrogating eco-epidemiological hypotheses with viral sequence data. *PLoS Neglected Tropical Diseases (under review).* 2020.

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4. **Vaiente, M;** Scotch, M. Reconciling WNV disease dynamics with data: clarifying the roles of vector vertical and bird-to-bird transmission. *Epidemics* (*in revision*). 2020.
5. Scotch, M; Maggee, A; **Vaiente, M.** ZooPhy: a bioinformatics pipeline for phylogeography and virus surveillance. *Online Journal of Public Health Informatics.* 2019.
6. Tashin, T; Weissenbacher, D; Jones-Sharagani, D; Magee D; **Vaiente, M**; Gonzalez, G; Scotch M. Named Entity Linking of Geospatial and Host Metadata in GenBak for Advancing Biomedical Research. *Database.* 2017
7. Scotch, M; Tahsin, T; Weissenbacher, D; O'Connor, K; Magge, A; **Vaiente, M**; Suchard, M; Gonzalez, G. Incorporating Sampling Uncertainty in the Geospatial Assignment of Taxa for Virus Phylogeography. *Virus Evolution. 2019*

CONFERENCE ORAL PRESENTATIONS & INVITED TALKS

1. **Vaiente, M.** The promise (and pitfalls) of Bayesian phylogeography for viral surveillance. *Molecular and Clinical Epidemiology of Infectious Disease Symposium.* University of Michigan, School of Public Health. 2019.
2. **Vaiente, M;** Scotch, M. Combining GoogleTrends and viral genetic data for public health surveillance: the case of Influenza A/H3N2 in Arizona. *14th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases.* Sitges, Spain. 2018
3. **Vaiente, M;** Scotch, M. Avian contact transmission underlies early epidemic expansion of West nile virus in the US. *14th International Conference on Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases.* Sitges, Spain. 2018

CONFERENCE POSTERS & ABSTRACTS

1. Mubayi A; Scotch, M; Rajagopal, P; **Vaiente, M**. Changes in air-travel-driven human mobility patterns and propagation of infectious diseases. *Society for Mathematical Biology Annual Meeting*. Salt Lake City, Utah, US. 2017.
2. **Vaiente, M**; Mubayi, A; Scotch, M. Evaluating zoonotic disease risks under various climatic conditions: integrating mathematical and statistical modeling approaches. *Global Security Plus Alliance*. Sydney, Australia. 2017.
3. **Vaiente, M**; Jimenez-Flores, R; Yeung, M. Proteomic evaluation of milk fat globule membrane proteins and bovine health status. *American Society for Animal Science Joint Annual Meeting*. Indianapolis, IN, US. 2013.

REFERENCES AVAILABLE UPON REQUEST