

OZAN KIRATLI

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EDUCATION

PhD in Biology (Expected 2022)

University of Pennsylvania (UPenn)

Philadelphia, PA

Conc: Evolutionary Biology

MS in Biology (2016)

Middle East Technical University (METU)

Ankara, Turkey

Conc: Evolutionary Biology

BS in Biology (2013)

Middle East Technical University

Ankara, Turkey

Minor in Physics

SKILLS

ANALYSIS SKILLS

- NGS analysis: Experience using trimming, aligning, cleaning tools, designing custom pipelines and tools
- Phylogenetics: Building phylogenetic trees with various methods (BEAST, Neighbor Joining etc.)
- Clustering and model fitting: PCA, MDS, linear models

COMPUTER SKILLS

CODING

- R
- Bash
- Python
- awk
- C++
- julia

PRODUCTIVITY

- git
- LaTeX
- Inkscape
- GIMP
- Blender
- OBS

LAB SKILLS

- Maintaining *Drosophila* stocks and populations, including cooking food, collecting wild flies, species identification, and manipulating populations
- Basic genetic and wetlab techniques
- Designing, building, managing, and conducting large scale experiments

SUMMARY

Evolutionary biologist with extensive experience in genomic analysis of Next Generation Sequencing (NGS) data. Strong written and oral communication skills complemented with advanced data visualization expertise. Interested in applying science to real world problems.

EXPERIENCE

2022 RESEARCH AND TEACHING ASSISTANT

2016 **Department of Biology, UPenn**

Designed, managed, and conducted 2 major experiments with *Drosophila melanogaster*; taught 3 different classes in 9 semesters in person and online

- Conducted a large scale research project on the ecological importance of migration on epistatic interactions and rapid adaptation with implications in conservation biology in the efforts to save endangered species from extinction
- Devised custom pipelines and tools to analyze poolseq and mitochondrial DNA samples sequenced with NGS
- Prepared, maintained, handled, and manipulated large number of lines and populations of *D. melanogaster*
- Designed phenotypic assays and performed statistical analysis
- Built structure to connect mesocosms that were 15m apart for an outdoor experiment
- Supervised 7 undergraduate students working for these projects.
- Designed syllabi for recitations, picked scientific publications matching students' knowledge
- Applied different methods including active learning
- Prepared and lead discussions, held office hours, wrote 300+ quiz and exam questions, graded exams
- Set up and managed Canvas websites throughout the semesters

2015 RESEARCH AND TEACHING ASSISTANT

2014 **Department of Molecular Biology and Genetics, METU**

- Coded and modified simulations, analyzed the efficiency and accuracy of simulations from literature
- Taught 4 different classes in 3 semesters, including recitations and laboratory classes
- Designed a new lab module
- Reviewed a lab manual

SELECTED PUBLICATION

- Kiratli, O., Rudman, S. M., Torija, E., Babore, Y., Goldfischer, A., & Schmidt, P. (n.d.). Migration-associated epistasis can facilitate adaptive response in *Drosophila melanogaster*. (In prep).

SOFT SKILLS

- Presentation
- Public speaking
- Willingness to learn
- Troubleshooting
- Collaboration
- Accepting feedback
- Independence
- Punctuality
- Problem solving
- Critical thinking
- Writing skills
- Mentoring
- Diversity and disability awareness
- Enthusiasm
- Cooperation
- Humorous

HOBBIES

- Writing poetry
- Playing bass guitar
- Designing and coding electronics projects with Raspberry Pi and Arduino

HONORS AND AWARDS

- **Honorable Mention for the Best Student Talk**, (2020), American Naturalist 2020, Pacific Grove, CA
- **Peachey Grant for Field Research**, (2017, 2019), UPenn, Department of Biology
- **Graduate Scholarship of Scientist Education Support Program**, (2013), The Scientific and Technological Research Council of Turkey (TUBITAK)
- **Undergraduate Scholarship of Scientist Education Support Program**, (2007), The Scientific and Technological Research Council of Turkey (TUBITAK)
- **METU Honor Roll Achievement**, (2008, 2011, 2012)

OUTREACH AND LEADERSHIP

- **Organizer of Virtual GREBE 2021**, (2019-2021)
Organized the annual "Graduate Research in Ecology, Behavior, and Evolution" conference that is exclusive to Penn, Princeton, Rutgers, Columbia, and Yale evolutionary biology, behavior, and ecology graduate students; prepared and hosted the live portion of the conference where the pre-recorded talks and live Q&A sessions were broadcasted on Zoom.
- **Educational content creator**, (2021-Current)
Creating content about major scientific events, environmental crisis, climate change, and philosophy of science including live content, educational clips, and videos in social media, holding live Q&A sessions, explaining scientific papers and process to public.
- **METU Biology and Genetics Student Club**, (2008-2012)
Served as officer in Vice President and in Treasurer roles; organizing committee member of conferences including the public talks of Dr. Francisco J. Ayala "Darwin's Contribution to Science and Religion" in 2009, Dr. Jerry Allen Coyne "Rapacious Ignorance and Bigotry: Intelligent Design is against Evolution" in 2008.
- **Peer Educator on Reproductive Health**, (2006-2009)
UNFPA, "Peer Education on Reproductive Health" project, Ankara, Turkey
Ran several workshops in different cities and universities; selected as "Peer of the Month" in August 2007