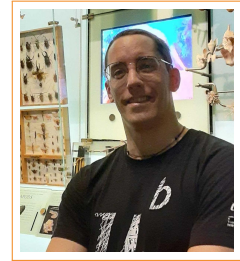


Matteo Tomasini

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Experience

Research

- Sep 2019 – Present **Postdoctoral research associate**, *Development of methods for the statistical inference from patterns of isolation by distance*, Department of Integrative Biology, Michigan State University, Principal Investigator: Prof. G. Bradburd.
- Feb 2015 – Jun 2019 **PhD student**, *On the theory of rapid adaptation in the presence of gene flow*, Interfaculty Bioinformatics Unit, Universität Bern, Supervisors: Dr. S. Peischl and Prof. L. Excoffier.
- Sep 2013 – Oct 2014 **MSc student**, *Effect of snow covering and ocean mixed layer on the irreversibility of sea ice retreat*, Institut des Sciences de l'Environnement, Université de Genève, Supervisors: Dr. M. Brunetti and Dr. S. Marshall.

Teaching

- Sep 2017 – Jun 2019 **Substitute lecturer**, *Applied Biostatistics I and II*, Universität Bern, Main lecturers: Dr. A. Hauser, Dr. S. Peischl.
Substitution of main lecturer in case of absence.
- Sep 2015 – Jun 2019 **Teaching assistant**, *Applied Biostatistics I and II*, Universität Bern, Main lecturers: Dr. A. Hauser, Dr. S. Peischl.
Management of exercise sessions and support for MSc students, correction of exercise sheets.
- Sep 2015, 2016, 2017, 2018 and 2019 **Teaching assistant**, *Introduction to R*, Universität Bern, Main lecturers: Prof. L. Excoffier, Dr. S. Peischl, Dr. V. Sousa.
Teaching assistant during a 5 days introductory course to the R language.

Miscellaneous

- Mar 2012 – Present **Co-admin**, *Meccanica Quantistica: gruppo serio*.
Co-administrator and moderator of the largest Facebook page of science dissemination in Italian language (~ 29'600 subscribers).
- Aug 2009 – Apr 2019 **Chief Sergeant Major**, *Swiss Army*.
Responsible for logistics in an artillery battery – in particular personnel, equipment, ammunition, health service and barracks administration – during the yearly one month service.
- Nov 2015 – Jun 2018 **Head of refereeing**, *Swiss Tchoukball*.
Head of the refereeing commission and member of executive committee of the Swiss federation of tchoukball; development of refereeing in the sport and referees' formation.

Education

- Feb 2015 – Jun 2019 **PhD studies in ecology & evolution**, *Universität Bern*, Supervisors: Dr. S. Peischl and Prof. L. Excoffier.
Relevant courses and workshops: best practices in programming, introduction to markov models, machine learning. Main topic: theoretical population genetics.
- Sep 2012 – Oct 2014 **MSc in physics (orientation theoretical physics)**, *Université de Genève*.
Relevant courses: cosmology, group theory, introduction to nanoelectronics, introduction to perturbative methods, non-linear dynamics, phase transitions and critical phenomena, quantum field theory.
- Sep 2009 – Aug 2012 **BSc in physics**, *Université de Genève*.
Relevant courses: algebra, calculus; analytical mechanics, electrodynamics, experimental physics, general relativity, quantum mechanics, statistical mechanics, thermodynamics; introduction to C++.

Publications

- 2020 **M. Tomasini**, S. Peischl, *When does gene flow facilitate evolutionary rescue?*, bioRxiv, 622142, ver. 5 peer-reviewed by Peer Community in Evolutionary Biology
- 2018 **M. Tomasini**, S. Peischl, *Establishment of locally adapted mutations under divergent selection*, *Genetics*, 209 (3), 885 – 895

Oral presentations

- Jun 2019 *Effects of gene flow and fragmentation on evolutionary rescue*, Modelling Ecology & Evolution Zurich 2019, Zurich
- Aug 2018 *Evolutionary rescue in structured habitats* (poster), Second Joint Congress of Evolutionary Biology, Montpellier

IT skills

- Regular user Python, R; SLiM, STAN; \LaTeX ; git
- Intermediate user Mathematica; Bash, C++
- Basic knowledge Julia; Maple; Jekyll, Django
- Operating systems **Ubuntu**; Linux Mint, Windows
- Editors **Neovim**; IDLE, PyCharm, VSCode

Languages

- | | | |
|------------------|---------|--|
| written / spoken | Italian | <i>Native language</i> |
| written / spoken | French | <i>Full professional working proficiency</i> |
| written / spoken | English | <i>Full professional working proficiency</i> |
| spoken | German | <i>Limited working proficiency</i> |

References

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|----------------|-----------------------|--|
| Current lab PI | Prof. Gideon Bradburd | <i>bradburd@msu.edu</i> |
| PhD supervisor | Dr. Stephan Peischl | <i>stephan.peischl@bioinformatics.unibe.ch</i> |