

ANDREA AGAZZI

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EDUCATION

- 2019– | **Griffith Assistant Professor** Mathematics Department, Duke University
- 2018 | **Postdoc** Mathematics Department, Duke University
Supervisor: Prof. J. C. Mattingly
- 2013–17 | **PhD in Theoretical Physics** at UNIGE (CH)
Supervisor: Prof. J.-P. Eckmann
- 2015 | **Research stay** at Stanford University (~ 1 year)
Supervisor: Prof. A. Dembo
- 2012–13 | **MSc Theoretical and Mathematical Physics** at Imperial College London (UK)
Supervisor: Prof. G. M. Graf (ETHZ)
- 2009–12 | **BSc Physics** at ETH Zurich (CH)

TEACHING AND WORKING EXPERIENCE

- 2018 | **Stochastic Calculus** (Mathematics Department, Duke University),
- 2016 | **Classical Mechanics (TA)** with Prof. Wittwer (DPT, UNIGE),
- 2015 | **Statistical consultant**, with Prof. Switzer (Statistics Dept., Stanford University),
Perturbative Methods (TA) with Prof. Wittwer (DPT, UNIGE)
- 2014 | **Dynamical Systems and Chaos (TA)** with Prof. Eckmann (DPT, UNIGE),
Classical Mechanics (TA) with Prof. Wittwer (DPT, UNIGE),
- 2013 | **Complex Analysis (TA)** with Prof. Ilmanen (D-MATH, ETHZ),
- 2012 | **Function Theory (TA)** with Prof. Biran (D-MATH, ETHZ),
Industrial Internship at Hoffman-La Roche in Catalysts Development,
- 2011 | **Analysis III (TA)** with Prof. Iozzi (D-MAVT, ETHZ).

PUBLICATIONS

- “**Kemical kinetics can be stable, marginally stable or unstable**”,
with J. C. Mattingly. Preprint (arXiv:1810.06547),
- “**On the geometry of chemical reaction networks: Lyapunov function and large deviations**”,
with A. Dembo and J.-P. Eckmann. Journal of Statistical Physics (2018), **172** (2), 321-352,
- “**Large Deviations Theory for Markov Jump Models of Chemical Reaction Networks**”,
with A. Dembo and J.-P. Eckmann. Annals of Applied Probability (2018), **28** (3), 1821-1855,
- “**Diffusion Fingerprints**”,
with J. Dubuisson and J.-P. Eckmann. Preprint (arxiv:1408.4966)
- “**The colored Hofstadter Butterfly for the Honeycomb Lattice**”,
with J.-P. Eckmann and G. M. Graf., appearing in Journal of Statistical Physics (2014), **156**, 417-426.

TALKS

- 2018 | Probability Seminar*(invited), Politecnico di Torino,
Interacting Random Systems Seminar*, Weierstrass Institute, Berlin,
SIAM workshop in Mathematical Biology*, Minneapolis, MN,
International Conference of Mathematical Physics Contributed Talks, Montreal,
Young Researcher Symposium at ICMP, Contributed Talks, Montreal,
- 2017 | Probability Seminar*, Courant Institute, NYU,
Probability Seminar*, Duke University,
Mathematical Physics Seminar*, McGill University,
Probability Seminar, Brown University,
SwissMAP meeting*, Grindelwald,
- 2016 | Seminar of the Statistical Biophysics group*, EPFL,
Swiss Physical Society Annual Meeting, Theoretical Physics section,
- 2014 | Swiss Physical Society Annual Meeting*, Theoretical Physics section,
“ETH talks in mathematical physics”, ETHZ.

ACHIEVEMENTS

- 2018–19 **Swiss National Research Foundation:** “Early PostDoc mobility” fellowship,
2016–17 **Head Delegate:** Swiss Study Foundation’s delegation to National Model of United Nations NY,
2015 **Swiss National Research Foundation:** “Doc. mobility” fellowship,
National Model of United Nations: “Outstanding position paper award”,
2013 **Membership of the Swiss Study Foundation for Excellence,**
2010 **Schweizer Jugend Forscht contest:** “Excellence prize” and “Simply science prize”,
European Union Contest for Young Scientists: “European Patent Office, prize for originality”,
2009 **EPFL:** “Best graduation project in material science in Switzerland”.

ADDITIONAL INFORMATION

- Languages** Italian (native speaker), English, German, French (fluent), Spanish and Chinese (CEFR level: A2),
Interests Fencing, Triathlon, Travelling,
Citizenship Swiss, Italian.