# Anne-Florence BITBOL

Tenure-Track Assistant Professor, Institute of Bioengineering, School of Life Sciences, EPFL

## Personal information

**Date of birth:** November 19, 1986 (age: 36)
**Nationality:** French
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## Education

**2012** PhD in Physics, *summa cum laude* — Université Paris-Diderot, Paris, France
**2009** MSc in Physics, *summa cum laude* — ENS & Université Pierre et Marie Curie, Paris, France
**2007** BSc in Physics, *summa cum laude* — ENS Lyon & Université Claude Bernard, Lyon, France
**2006** Admitted to École Normale Supérieure (ENS) Lyon, France (rank: 6th out of ∼1000 applicants)

## Academic positions

**Since February 2020:** Tenure-Track Assistant Professor, Institute of Bioengineering, School of Life Sciences, École Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland
& Swiss Institute of Bioinformatics (SIB) group leader since February 2021
**2016-2020:** Tenured CNRS Researcher, Laboratoire Jean Perrin, CNRS – Sorbonne Université (formerly Université Pierre et Marie Curie), Paris, France (rank: 1st out of ∼100 applicants)
**2012-2016:** Postdoctoral Research Fellow, Biophysics Theory group, Lewis-Sigler Institute for Integrative Genomics & Physics Department, Princeton University, NJ, USA
*Topics:* Multi-protein complexes: functions and constraints; Evolution of subdivided populations
*Principal investigators:* Ned Wingreen, William Bialek and Curtis Callan
**2009-2012:** PhD student, Laboratoire Matière et Systèmes Complexes, Université Paris-Diderot, Paris, France
*Topic:* Statistics and dynamics of complex membranes – *Advisor:* Jean-Baptiste Fournier

## Funding

**2023-2027** SNSF (Swiss National Science Foundation) Project Grant, PI, 685 kCHF
**2020-2025** ERC Starting Grant, PI, 1.5 M€ (success rate ∼14%)
**2020** ANR (French National Research Agency) Young Researcher Grant, PI, 286 k€ (success rate ∼15%) — *Declined (cannot be held together with an ERC grant)*
**2020** Emergence grant from Sorbonne Université, PI, 70 k€
**2018-2019** Collaborative grant from IBPS, Sorbonne Université, PI, co-PI: Martin Weigt, 10 k€
**2013-2016** HFSP Cross-Disciplinary Fellowship (success rate ∼10%)
**2010-2012** Teaching assistantship, Université Paris-Diderot
**2010-2012** PhD scholarship, ENS Lyon
**2006-2009** Four-year scholarship, ENS Lyon (success rate ∼10%)

## Awards

**2023** Best teacher award, Life Sciences Engineering teaching section, EPFL
**2023** Young Scientist Prize in Biological Physics for 2020, International Union of Pure and Applied Physics
**2014** Michelin Young Researcher Prize (PhD prize), French Physical Society
**2013** Louis Forest PhD Thesis Prize in the Life Sciences, Chancellery of the Universities of Paris
**2010** Second Ben Widom prize (clearest contributed talks), International School of Physics Enrico Fermi, CLXXVI Course, Complex materials in physics and biology, Varenna (Italy)
**2004** First prize in Italian in a national high-school competitive exam (Concours Général)
**2003** Second prize in Latin in a national high-school competitive exam (Concours Général)

## Teaching

**Since 2022** Responsible of the *Biological Data Science* specialization, Life Sciences Engineering MSc, EPFL.
**Since 2021** Lecturing and course construction, "Randomness and information in biological data", EPFL (third-year level, also open to MSc students; 4 credits, 28h lectures + 28h problems)
**2021** Accompanied the class trip of the Life Sciences Engineering BSc students.

**Since 2020** Contributions to EPFL MSc/PhD classes: Scientific literature analysis in computational molecular biology, BIO-468; Selected Topics in the Life Sciences, BIOENG-430; Advances in Physics, PHYS-815.
**2018-2020** Tutorials, "Mathematical Methods" (fourth-year level), ESPCI, Paris, France (10h/year)
**2016-2018** Problem classes, "Statistical Physics" (third-year level), ESPCI (10h/year)
**2016-2017** Problem classes, "Numerical Simulation for Statistical Physics", MSc in Physics of Complex Systems (fifth-year level), Sorbonne Université, Paris, France (15h/year)
**2016** Tutorials, "Statistical Physics" (third-year level), ESPCI, Paris, France (16h/year)
**2010-2012** Teaching assistant, Université Paris-Diderot, Paris, France. Problem classes, "Physics for Biologists" (first-year level) and "Statistical Physics" (third-year level) (64h/year)
**2009-2010** Tutorials, Physics & Chemistry (first-year level), Lycée Saint-Louis, Paris, France (30h/year)

## Service

### EPFL service

- CIS (Center for Intelligent Systems) scientific committee, since 2021
- Faculty search committees, one per year since 2020-2021
- ELISIR (early life science independent research) fellowship committee (search; evaluation), since 2021
- AI4Science fellowship committee (search for independent postdoctoral fellows), since 2021
- EDCB (graduate school in Computational Biology) committee (search for PhD students), since 2020
- SV gender and minority committee, since 2020
- SV green team, since 2020
- WISH (women in sciences and humanities) Foundation bureau, since 2020
- Organizer of the Physics of Living Systems (POLS) monthly EPFL symposium, since 2022
- Co-organizer of the Physics of Living Systems (POLS) virtual seminar series (2021)
- Co-organizer of the 2021 SV Faculty virtual retreat
- Student evaluation and mentoring: Internal examiner for 4 PhD theses, jury member or president for 6 PhD candidacy exams, EPFL supervisor of 9 external MSc projects, mentor of 8 PhD students

### Organization of scientific meetings

**2023** Co-organizer of a four-week summer school in Les Houches, France, "Theoretical Biological Physics", with Thierry Mora (CNRS – ENS, France), Ilya Nemenman (Emory University, USA) and Aleksandra Walczak (CNRS – ENS, France)
**2022** Member of the Scientific Committee of a one-week spring school co-organized by the SIB Swiss Institute of Bioinformatics, the NCCR Microbiomes, and the NCCR AntiResist, in Nottwil, Switzerland, "Bioinformatics and Computational Approaches in Microbiology".
**2021** Co-organizer of a six-week workshop at Institut Henri Poincaré (IHP) in Paris, France, "Quantitative Evolution, Phylogeny and Ecology: from models to data and back", with Claude Loverdo (CNRS – Sorbonne Université, France), Mikhail Tikhonov (Washington University in St-Louis, USA) and Aleksandra Walczak (CNRS – ENS, France). *Turned into a fully online program.*
**Since 2019** Board Member, Q-Bio conference (yearly international quantitative biology conference attended by $\sim$200 persons)
**2019** Program Committee Chair, Q-Bio conference (San Francisco, CA)
**Since 2015** Program Committee Member, Q-Bio conference

### Other external service

**Committees:** Selection of the IUPAP Medal for the Physics of Life awardee (since 2023); Faculty Hiring committee at the University of Lausanne (2023)
**Editorial boards:** Reviewing editor at eLife (since 2022); guest editor at PNAS (2023)
**Reviewing of papers:** eLife, Nature Communications, PNAS, PLOS Computational Biology, Bioinformatics, Nucleic Acids Research, American Naturalist, Current Genomics, Neuroscience, Biophysical Journal, Physical Biology, Journal of Theoretical Biology, Physical Review Letters, Physical Review E, European Physical Journal
**Reviewing of grants:** ANR (France), ISF (Israel), NWO (Netherlands)
**Student evaluation:** PhD thesis examiner for 6 PhDs in France and one in Germany; PhD committee member for 2 PhDs in Switzerland and one in France; MSc thesis examiner for 2 MSc projects in France

## Languages

**French:** native speaker
**English:** fluent (TOEIC score: 990/990, June 2012)
**Italian:** fluent

## Publications

In this list, my name is underlined. After names, * denotes equal contributions, while § indicates corresponding author(s).

### Articles in peer reviewed journals

1. R. Servajean and A.-F. Bitbol§, *Impact of population size on early adaptation in rugged fitness landscapes*, Philosophical Transactions of the Royal Society B: Biological Sciences, 378: 20220045 (2023)
2. C.A. Gandarilla-Pérez, S. Pinilla, A.-F. Bitbol§ and M. Weigt§, *Combining phylogeny and coevolution improves the inference of interaction partners among paralogous proteins*, PLOS Computational Biology 19(3): e1011010 (2023)
3. N. Dietler, U. Lupo and A.-F. Bitbol§, *Impact of phylogeny on structural contact inference from protein sequence data*, Journal of the Royal Society Interface 20(199):20220707 (2023)
4. D. Sgarbossa, U. Lupo§ and A.-F. Bitbol§, *Generative power of a protein language model trained on multiple sequence alignments*, Elife 12:e79854 (2023)
5. U. Lupo§, D. Sgarbossa and A.-F. Bitbol§, *Protein language models trained on multiple sequence alignments learn phylogenetic relationships*, Nature Communications 13(1):6298 (2022)
6. A. Gerardos, N. Dietler and A.-F. Bitbol§, *Correlations from structure and phylogeny combine constructively in the inference of protein partners from sequences*, PLOS Computational Biology 18(5):e1010147 (2022)
7. D. Labavić, C. Loverdo*§ and A.-F. Bitbol*§, *Hydrodynamic flow and concentration gradients in the gut enhance neutral bacterial diversity*, Proceedings of the National Academy of Sciences 119(1):e2108671119 (2022)
8. A. Colavin*, E. Atolia*, A.-F. Bitbol and K.C. Huang§, *Extracting the phylogenetic dimension of coevolution reveals hidden functional signal*, Scientific Reports 12(1):1-19 (2022)
9. L. Marrec, I. Lamberti and A.-F. Bitbol§, *Toward a universal model for spatially structured populations*, Physical Review Letters 127(21):218102 (2021)
10. P. Ortet, S. Fochesato, A.-F. Bitbol, D.E. Whitworth, D. Lalaouna, C. Santaella, T. Heulin, W. Achouak and M. Barakat§, *Evolutionary history expands the range of signaling interactions in hybrid multikinase networks*, Scientific Reports 11:11763 (2021)
11. L. Marrec and A.-F. Bitbol§, *Adapt or perish: Evolutionary rescue in a gradually deteriorating environment*, Genetics 216(2):573-583 (2020)
12. N. Dietler*, M. Minder*, V. Gligorovski, A.M. Economou, D.A.H.L. Joly, A. Sadeghi, C.H.M. Chan, M. Koziński, M. Weigert, A.-F. Bitbol and S. J. Rahi§, *A convolutional neural network segments yeast microscopy images with high accuracy*, Nature Communications 11(1):1-8 (2020)
13. N. Patil, S. Bonneau, F. Joubert, A.-F. Bitbol and H. Berthoumieux§, *Mitochondrial cristae modeled as an out-of-equilibrium membrane driven by a proton field*, Physical Review E 102(2): 022401 (2020)
14. L. Marrec and A.-F. Bitbol§, *Resist or perish: Fate of a microbial population subjected to a periodic presence of antimicrobial*, PLOS Computational Biology 16(4):e1007798 (2020)
15. C.A. Gandarilla-Pérez, P. Mergny, M. Weigt§ and A.-F. Bitbol§, *Statistical physics of interacting proteins: impact of dataset size and quality assessed in synthetic sequences*, Physical Review E 101(3):032413 (2020)
16. P. Thomen, J.D.P. Valentin, A.-F. Bitbol and N. Henry§, *Spatiotemporal pattern formation in E. coli biofilms explained by a simple physical energy balance*, Soft Matter 16(2):494-504 (2020)
17. G. Marmier, M. Weigt and A.-F. Bitbol§, *Phylogenetic correlations can suffice to infer protein partners from sequences*, PLOS Computational Biology 15(10):e1007179 (2019)
18. F. Bansept*, L. Marrec*, A.-F. Bitbol§ and C. Loverdo§, *Antibody-mediated cross-linking of gut bacteria hinders the spread of antibiotic resistance*, Evolution 73(6):1077-1088 (2019)
Selected for a highlight
19. S.-W. Wang*, A.-F. Bitbol*§ and N.S. Wingreen§, *Revealing evolutionary constraints on proteins through sequence analysis*, PLOS Computational Biology 15(4):e1007010 (2019)
20. A.-F. Bitbol§, *Inferring interaction partners from protein sequences using mutual information*, PLOS Computational Biology 14(11):e1006401 (2018)
21. L. Marrec and A.-F. Bitbol§, *Quantifying the impact of a periodic presence of antimicrobial on resistance evolution in a homogeneous microbial population of fixed size*, Journal of Theoretical Biology 457:190-198 (2018)

22. P. Thomen, J. Robert, A. Monmeyran, A.-F. Bitbol, C. Douarche, N. Henry[§], *Bacterial biofilm under flow: First a physical struggle to stay, then a matter of breathing*, PLOS ONE, 12(4):e0175197 (2017)
23. A.-F. Bitbol[§], R.S. Dwyer, L.J. Colwell[§] and N.S. Wingreen[§], *Inferring interaction partners from protein sequences*, Proceedings of the National Academy of Sciences, 13(43):12180-12185 (2016)
24. A.-F. Bitbol[§] and N.S. Wingreen[§], *Fundamental constraints on the abundances of chemotaxis proteins*, Biophysical Journal 108(5):1293-1305 (2015)
25. A.-F. Bitbol[§] and D.J. Schwab, *Quantifying the role of population subdivision in evolution on rugged fitness landscapes*, PLOS Computational Biology 10(8):e1003778 (2014)
26. R.M. Barry, A.-F. Bitbol, A. Lorestani, E.J. Charles, C.H. Habrian, J.M. Hansen, H.-J. Li, E.P. Baldwin, N.S. Wingreen, J.M. Kollman and Z. Gitai[§], *Large-scale filament formation inhibits the activity of CTP synthetase*, eLife 3:e03638 (2014)
27. N. Khalifat, M. Rahimi, A.-F. Bitbol, M. Seigneuret[§], J.-B. Fournier, N. Puff, M. Arroyo and M.I. Angelova[§], *Interplay of packing and flip-flop in local bilayer deformation. How phosphatidylglycerol could rescue mitochondrial function in a cardiolipin-deficient yeast mutant*, Biophysical Journal 107(4):879-890 (2014)
28. A.-F. Bitbol[§] and J.-B. Fournier, *Membrane properties revealed by spatiotemporal response to a local inhomogeneity*, Biochimica et Biophysica Acta – Biomembranes 1828:1241-1249 (2013)
29. A.-F. Bitbol, A. Canaguier-Durand, A. Lambrecht and S. Reynaud, *Pairwise summation approximation for Casimir potentials and its limitations*, Physical Review B 87:045413 (2013)
30. A.-F. Bitbol, D. Constantin and J.-B. Fournier[§], *Bilayer elasticity at the nanoscale: the need for new terms*, PLoS ONE 7(11):e48306 (2012)
31. A.-F. Bitbol, N. Puff, Y. Sakuma, M. Imai, J.-B. Fournier and M.I. Angelova[§], *Lipid membrane deformation in response to a local pH modification: theory and experiments*, Soft Matter 8:6073 (2012)
32. A.-F. Bitbol, K. Sin Ronia and J.-B. Fournier[§], *Universal amplitudes of the Casimir-like interactions between four types of rods in fluid membranes*, Europhysics Letters 96:40013 (2011)
33. A.-F. Bitbol, J.-B. Fournier, M.I. Angelova[§] and N. Puff, *Dynamical membrane curvature instability controlled by intermonolayer friction*, Journal of Physics: Condensed Matter 23:284102 (2011)
34. A.-F. Bitbol and J.-B. Fournier, *Forces exerted by a correlated fluid on embedded inclusions*, Physical Review E 83:061107 (2011)
35. A.-F. Bitbol, L. Peliti and J.-B. Fournier[§], *Membrane stress tensor in the presence of lipid density and composition inhomogeneities*, European Physical Journal E 34:53 (2011)
36. A.-F. Bitbol, P.G. Dommersnes and J.-B. Fournier, *Fluctuations of the Casimir-like force between two membrane inclusions*, Physical Review E 81:050903(R) (2010) – Rapid Communication
37. A.-F. Bitbol, N. Taberlet, S.W. Morris, and J.N. McElwaine, *Scaling and dynamics of washboard roads*, Physical Review E 79:061308 (2009)
    Selected for a summary in Nature Physics 5:232 (2009): *Research highlights: The dirt on corrugations*

### Book chapters and review papers

1. A.-F. Bitbol[§], D. Constantin and J.-B. Fournier, *Membrane-mediated interactions*, invited chapter in the Springer book "Physics of biological membranes" edited by Patricia Bassereau & Pierre Sens, 2018
2. M.I. Angelova[§], A.-F. Bitbol, M. Seigneuret, G. Staneva, A. Kodama, Y. Sakuma, T. Kawakatsu, M. Imai, N. Puff, *pH sensing by lipids in membranes: The fundamentals of pH-driven migration, polarization and deformations of lipid bilayer assemblies*, Biochimica et Biophysica Acta - Biomembranes 1860(10):2042-2063 (2018)

## Invited lectures

### Invited lectures at international conferences

**09/2023** Invited talk, Physics of Living Matter Symposium 2023 (PLM17), Cambridge, UK
**09/2023** Invited talk, CECAM workshop "Macromolecular complexes: from ab initio and integrative modeling to functional dynamics", Lausanne, Switzerland
**08/2023** Plenary invited talk, International Conference on Biological Physics (ICBP) 2023, Seoul, Korea (as recipient of IUPAP C6 Young Scientist Prize)
**04/2023** Invited talk, "Mathematical Foundations of Biological Organisation" workshop, Oberwolfach, Germany

**04/2023** Invited talk, workshop "Biological sequence variation: from statistical modeling to structure, function, and evolutionary dynamics", Cargese, France
**03/2023** Invited talk, session "Physics of biological computation across scales", American Physical Society (APS) March Meeting, Las Vegas, NV, USA
**03/2023** Invited tutorial, session "Machine learning and model inference for biological physicists", American Physical Society (APS) March Meeting, Las Vegas, NV, USA
**12/2022** Invited talk, workshop "Computational Aspects and Modeling of Biological Information", Milan, Italy
**09/2022** Invited talk, 121st International Titisee Conference "Space, Time and Life", Boehringer Ingelheim Foundation, Titisee, Germany
**09/2022** Invited talk, EMBO workshop "When predictions meet experiments: the future of structure determination", Palermo, Italy
**08/2022** Invited talk, EMBO workshop "Cell and developmental systems", Arolla, Switzerland
**07/2022** Invited talk, Aspen Center for Physics, Aspen, CO, USA (Statistical physics of ecology and evolution Working Group)
**06/2022** Invited talk, Conference in the honor of Ned Wingreen's 60th birthday, Princeton, NJ, USA
**03/2022** Invited talk, Applied Machine Learning Days conference, Lausanne, Switzerland
**11/2021** Invited talk, CECAM workshop "Co-evolutionary analysis meets machine learning for modelling biomolecular structures and interactions", Lausanne, Switzerland
**09/2021** Invited talk, online workshop, "4D Cellular Physiology Reimagined: Theory as a Principal Component", Janelia Research Campus, Howard Hughes Medical Institute, USA
**06/2021** Invited talk, online EMBO workshop, "Predicting evolution"
**09/2019** Invited talk, French-German WE-Heraeus-Seminar, "Novel Physics in Living Systems?", Roscoff, France
**07/2019** Invited talk, Nordita program "From Molecular Basis to Predictability and Control of Evolution", Stockholm, Sweden
**06/2019** Invited talk, CECAM workshop "Co-evolutionary methods for the prediction and design of protein structure and interactions", EPFL, Lausanne, Switzerland
**09/2018** Invited talk, "Physics and biology of subcellular structure & remodeling" workshop, Carnegie Mellon University, Pittsburgh, PA, USA
**08/2017** Invited talk, Aspen Center for Physics, Aspen, CO, USA (Covariance Analysis Working Group)
**12/2016** Invited talk, CECAM workshop "Mesoscopic Modeling in Physics of Molecular and Cell Biology", Toulouse, France
**09/2016** Invited talk, 20th Evolutionary Biology Meeting, Marseille, France
**10/2015** Invited talk, workshop "Women in Applied Math and Soft Matter Physics", Mainz, Germany

**Invited lectures at international summer schools**

**11/2021** Invited talk, Advanced systems biology school, Aussois, France
**11/2021** Invited talk, Multiscale integration in biological systems school, Institut Curie, Paris, France
**07/2021** Invited talk, "Fundamental Problems in Statistical Physics" summer school, Brunico, Italy
**04/2018** Invited lecturer at the "Living Matter" school, International Center for Theoretical Science (ICTS), Bangalore, India (two 90-minute lectures + 10 daily tutorials)

**Invited seminars**

**05/2023** Theory of Living Matter online seminar, Cambridge University, UK
**05/2023** Bionanoscience Seminar, TU Delft, Netherlands
**10/2022** NCCR Microbiomes online seminar, Switzerland
**05/2022** Population Dynamics virtual seminar, University of Edinburgh, UK & University of Jena, Germany
**02/2022** Biomathematics virtual Seminar, Imperial College London, UK
**02/2022** Seminar, Physics department, École Normale Supérieure de Lyon, France
**12/2021** Online seminar, Theory of Living Systems, Australia
**10/2021** Ecology and Evolution seminar, University of Lausanne, Switzerland
**06/2021** Online Biological Physics seminar, Hebrew University of Jerusalem, Israel
**05/2021** Online Evolutionary & Behavioural Ecology seminar, University of Bern, Switzerland
**04/2021** Online seminar, Theoretical Biology Network in Western Switzerland
**04/2021** Online seminar, Symposium on Ecological Dynamics, City University of New York & Princeton University, USA
**03/2021** Online Computational Biology seminar, University of Lausanne, Switzerland
**01/2021** Online seminar, Simons Webinar on Cracking the Glass Problem
**01/2020** Computational Biology seminar, Institut Pasteur, Paris, France
**09/2019** Computational Biology seminar, Biozentrum, University of Basel, Switzerland
**12/2017** Seminar, Center for Nanoscience, Ludwig Maximilian University (LMU), Munich, Germany

**12/2015** Biological Physics Seminar at Rutgers University, New Brunswick, NJ, USA

**Invited lectures at national conferences**

**01/2023** Keynote invited talk, Joint CNRS meeting "Interdisciplinary approaches in molecular evolution" and "Evolutionary genomics, bioinformatics, alignments and phylogeny", Grenoble, France
**11/2022** Invited talk, Department of Fundamental Microbiology Impromptu Symposium, University of Lausanne, Switzerland
**10/2021** Invited talk, Paris biophysics community day, ENS, Paris, France
**11/2020** Invited talk, online workshop, "Modeling and Computation for Life and Environment Sciences", University of Montpellier, France
**01/2019** Invited talk, "Statistical Physics Days" conference, ENS, Paris, France

## Advisees

**Postdoctoral researchers (total: 7)**

**Luca Biggio** since October 2023, independent AI4Science fellow, co-advised with Lenka Zdeborová, Institute of Physics, EPFL.
Previously: PhD ETH Zürich, Switzerland, MSc U. of Cambridge, UK, MSc & BSc U. of Genoa, Italy.
**Cyril Malbranke** since March 2023.
Previously: PhD ENS Paris, MSc & BSc École Polytechnique, France.
**Arthur Alexandre** since October 2022.
Previously: PhD University of Bordeaux, MSc & BSc ENS Paris-Saclay, France.
**Celia García-Pareja** March 2022-August 2023, co-advised with Fabio Nobile, Institute of Mathematics, EPFL.
Previously: PhD Karolinska Institute, Sweden, MSc & BSc University of Barcelona, Spain.
*Now lecturer at KTH, Stockholm, Sweden.*
**Alia Abbara** since January 2021.
Previously: PhD, MSc & BSc ENS Paris, France.
**Umberto Lupo** since July 2020.
Previously: Scientist L2F, PhD U. of York, MSc U. of Cambridge, BSc U. of Warwick, UK.
**Darka Labavić** January-December 2020, at Sorbonne Université, co-advised with Claude Loverdo.
Previously: Postdoc University of Lille, France, PhD University of Bremen, Germany, MSc & BSc University of Zagreb, Croatia.
*Now postdoc at Sorbonne Université, Paris, France.*

**PhD students (total: 5)**

**Cecilia Fruet** EDPY (Physics), since April 2023.
Previously: MSc Universities of Trento, Italy and Tübingen, Germany, BSc U. of Pavia, Italy.
**Damiano Sgarbossa** EDCB (Comput. Biology), since April 2021. Passed candidacy in March 2022.
Previously: MSc & BSc University of Padua, Italy.
**Richard Servajean** EDPY (Physics), since October 2020. Passed candidacy in September 2021.
Previously: MSc & BSc University of Montpellier, France.
**Nicola Dietler** EDPY (Physics), since February 2020. Passed candidacy in February 2021.
Previously: MSc ETH Zürich, BSc EPFL, Switzerland.
**Loïc Marrec** 2017-2020, at Sorbonne Université, co-advised with Raphaël Voituriez (HDR).
Previously: MSc & BSc University Paris-Saclay, France.
Defended June 2020.
*Now postdoc at the Institute of Ecology and Evolution of the University of Bern, Switzerland.*

**MSc students and BSc students (24, not listed for brevity)**