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## RESEARCH INTERESTS

Interference competition in bacteria  
 Bacterial cooperation

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## METHODS

Experimental microbiology  
 Fluorescence microscopy

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## ACADEMIC HISTORY

<b>Research Fellow</b> , Department of Zoology, University of Oxford, United Kingdom BBSRC Discovery Fellowship	05/2021 – present
<b>Postdoctoral Researcher</b> , Department of Zoology, University of Oxford, United Kingdom Advisor: Prof. Kevin Foster	11/2017 – 04/2021
<b>PhD</b> , Life Science Zurich Graduate School, University of Zurich, Switzerland Thesis title: "Evolution of cooperation and virulence in an opportunistic pathogen" Advisor: Prof. Rolf Kümmerli	6/2013 – 9/2017
<b>Master of Science</b> , Microbiology and Immunology, ETH Zurich, Switzerland	9/2011 – 4/2013
<b>Bachelor of Science</b> , Biology, LMU Munich, Germany	9/2008 – 6/2011

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## SCHOLARSHIPS AND AWARDS

FEMS Early Career Microbiologist Award <a href="https://fems-microbiology.org/and-the-winner-is-2/">https://fems-microbiology.org/and-the-winner-is-2/</a>	6/2021
BBSRC Discovery Fellowship	2/2021
SNF Postdoc Mobility Fellowship	4/2019
SNF Early Postdoc Mobility Fellowship	11/2017
ASM Student and Postdoctoral Travel Award	3/2016
Research Fund of the University of Zurich (Forschungskredit)	1/2016
Student Oral Presentation Award, Evolutionary Medicine Conference, Zurich	7/2015
Scholarship of the German National Merit Foundation	9/2011

**INVITED PRESENTATIONS**

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Plenary lecture <b>FEMS Conference on Microbiology</b> , Belgrade, Serbia (upcoming)	06/2022
Fall Seminar Series <b>Max Planck Institute for Evolutionary Biology</b> , Plön, Germany (upcoming)	12/2021
Molecular Microbiology Division Seminar Series <b>University of Dundee</b> , United Kingdom	10/2021
Department of Zoology Seminar Series <b>University of Oxford</b> , United Kingdom	10/2021
FEMS Award Session <b>World Microbe Forum</b> (ASM/FEMS virtual conference)	6/2021
Collaborative Research Centre (CRC) AquaDiva Seminar Series <b>Friedrich-Schiller-University</b> , Jena, Germany	6/2021
Life Science & Medical School Seminar Series <b>University of Warwick</b> , United Kingdom	1/2021
Zam Iqbal Research Group Seminar <b>European Bioinformatics Institute</b> , Cambridge, United Kingdom	10/2020
MEEVirtual 2020 <b>Microbial Ecology &amp; Evolution Virtual Conference</b>	8/2020
Centre for Life's Origins and Evolution (CLOE) Summer Symposium <b>University College London</b> , United Kingdom	6/2020
Swiss Federal Inst. of Aquatic Science & Technology (EAWAG) Departmental Seminar <b>ETH Zurich</b> , Switzerland	4/2020
Junior Awards for Microbiology <b>University of Birmingham</b> , United Kingdom	6/2019

**CONTRIBUTED CONFERENCE PRESENTATIONS**

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Microbiology Society Annual Conference, Edinburgh, United Kingdom <b>Oral presentation</b> (event cancelled due to COVID19)	4/2020
International $\mu$ Box Meeting at Oxford, United Kingdom <i>Poster presentation</i>	9/2019
17 <sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Turku, Finland <b>Oral presentation</b>	8/2019
International Meeting on Phenotypic Heterogeneity and Sociobiology of Bacterial Populations (SPP1617), Hohenkammer, Germany <i>Poster presentation</i>	3/2019
17 <sup>th</sup> International Symposium on Microbial Ecology (ISME), Leipzig, Germany <i>Poster presentation</i>	8/2018

**CONTRIBUTED CONFERENCE PRESENTATIONS (cont.)**

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1 <sup>st</sup> International TRANSIT workshop on Cross-disciplinary Research, York, United Kingdom <i>Oral presentation</i>	4/2018
16 <sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Groningen, Netherlands <i>Oral presentation</i>	8/2017
116 <sup>th</sup> General Meeting of the American Society of Microbiology (ASM), Boston, USA <i>Poster presentation</i>	6/2016
Behaviour, Ecology, Environment and Evolution Meeting, University of Zurich, Switzerland <i>Oral presentation</i>	3/2015
15 <sup>th</sup> Congress of the European Society for Evolutionary Biology (ESEB), Lausanne, Switzerland <i>Poster presentation</i>	8/2015
Evolutionary Medicine Conference, Zurich, Switzerland <i>Oral presentation</i>	7/2015
15 <sup>th</sup> International Symposium on Microbial Ecology (ISME), Seoul, South Korea <i>Poster presentation</i>	8/2014
Workshop in Evolutionary Biology, Guarda, Switzerland <i>Oral presentation</i>	6/2014

**TEACHING**

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<b>Lead course organizer</b> , Experimental Evolution Department of Zoology, University of Oxford	2/2019 - present
<b>Teaching assistant</b> , Evolutionary Microbiology Faculty of Science, University of Zurich	2/2014 – 4/2017
<b>Teaching assistant</b> , General Microbiology Department of Biology, LMU Munich	3/2010

**SUPERVISION AND MENTORING**

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<b>Supervision of Bachelor student</b> , University of Oxford Christian Kirk	4/2020 - present
<b>Mentoring Program, Department of Zoology</b> , University of Oxford, United Kingdom Co-development of a mentoring program between postdocs and PhD students; Regular mentoring activity	11/2019- present
<b>MEEVirtual Mentoring Program</b> Mentoring of junior researchers attending a scientific conference	8/2020
<b>PhD Mentoring Program, Life Science Graduate School Zurich</b> Mentoring of junior PhD students Annika Hausmann, Arturo Rinaldi, Weronika Barcik	6/2014 – 9/2017
<b>Supervision of laboratory internship</b> Isa Moreno	1/2015- 4/2015

## INSTITUTIONAL AND SUPPORT ACTIVITIES

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<b>FutureProfs</b> , Department of Biochemistry, University of Oxford, United Kingdom Founder of a peer-to-peer support group among postdoctoral researchers working towards an academic career	11/2019 - present
<b>Early Career Researcher Network</b> , University of Oxford, United Kingdom Organization of scientific, social, and training events for early career researchers Personnel Committee Representative; Social Media & Outreach Representative	9/2018 – present
<b>Committee for Appointment of Faculty</b> , University of Zurich, Switzerland Representative for mid-level faculty	2017

## OUTREACH

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<b>Twitter</b> Active Twitter profile with >16'000 followers, regular interactions with general public and dissemination of scientific content.	2010 - present
<b>'Tidbits of Research' Podcast</b> Interview about my research, aimed at a general audience	8/2021
<b>FEMS Podcast – 'Microbes and Us'</b> Interview about my research, career development in academia and more <a href="https://open.spotify.com/episode/1xfpNpMgXO0qwX1PYi22OK?si=4N-LOj3MRieDga4WUk87VQ&amp;dl_branch=1&amp;nd=1">https://open.spotify.com/episode/1xfpNpMgXO0qwX1PYi22OK?si=4N-LOj3MRieDga4WUk87VQ&amp;dl_branch=1&amp;nd=1</a>	7/2021
<b>Microbial Literacy Project</b> Co-development of a child-centric microbiology education framework for use in UK education Topic: Microbial Communities and Social Behaviour	9/2020 - 4/2021
<b>Skype A Scientist</b> Skyping with class rooms around the world as part of the SkypeAScientist initiative	4/2019 – 6/2020
<b>Article in <i>New Scientist</i> magazine</b> Contributed to popular science article on my recent publication <a href="https://www.newscientist.com/article/2236441-bacteria-sacrifice-themselves-when-under-attack-to-save-their-colonies/">https://www.newscientist.com/article/2236441-bacteria-sacrifice-themselves-when-under-attack-to-save-their-colonies/</a>	3/2020
<b>Chalk Talk Seminar</b> , Dunn School of Pathology, University of Oxford, United Kingdom Scientific presentation for a general audience, run by the <i>Oxford Scientist</i> magazine	11/2019
<b>Science Jam</b> , Department of Zoology, University of Oxford, United Kingdom Organization of - and participation in - a departmental event where researchers presented their work in an accessible and creative way	5/2019
<b>Oxford Scientist School</b> , Oxford, United Kingdom Guest judge for science writing competition for Secondary school pupils	1/2019
<b>Teaching on Twitter</b> Lecturer for the 1 <sup>st</sup> worldwide online open access microbiology course ("EUROmicroMOOC") Delivery of online lecture on "Bacterial cooperation", accessible to a general audience via Twitter.	10/2018

## OUTREACH (cont.)

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<b>'Bacterial World' Exhibition</b> Contribution of microscopy images to exhibition in the Natural History Museum of Oxford	10/2018
<b>UNIQ Summer School</b> , University of Oxford, United Kingdom Demonstrator for practical classes on antibiotics, delivered to state school students.	8/2018
<b>Science Lab Zurich</b> , Faculty of Science, University of Zurich, Switzerland Organization and execution of guided tour through microbiology laboratories for local high school students.	2/2017
<b>International Physics Olympiad</b> , Faculty of Science, University of Zurich, Switzerland Organization and execution of guided tour through microbiology laboratories for international high school students.	7/2016
<b>Info Day Biology</b> , Department of Biology, ETH Zurich, Switzerland Oral presentation of Master in Biology at ETH to local high school students.	3/2012
<b>Open Day Biochemistry</b> , Max-Planck-Institute of Biochemistry, Martinsried, Germany Assisting in presentation of biochemistry research to the general public.	10/2010

## PEER REVIEW ACTIVITY

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### Journals

- Nature Communications
- Current Biology
- mBio
- ISME
- Proc Soc B
- Communications Biology
- PLOS ONE
- Microbiology
- Biofilm
- FEMS Microbial Ecology
- BMC Evolutionary Biology
- Microbial Ecology

### Funding agencies

- Swiss National Science Foundation
- UKRI Medical Research Council

## ADVANCED TRAINING (selection)

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<b>Mentorship Training</b> (4 hours), University of Oxford, United Kingdom	10/2019
<b>Public Engagement with Research</b> (2 hours), University of Oxford, United Kingdom	2/2019
<b>Advanced Microscopy Course</b> (20 hours), University of Oxford, United Kingdom	11/2017
<b>Mentorship Training</b> (30 hours), Life Science Zurich Graduate School, Zurich, Switzerland	1/2016
<b>Voice Training and Presentation Skills</b> (30 hours), Center for Advanced Training, Zurich, Switzerland	5/2014
<b>Project Management for Research</b> (30 hours), Center for Advanced Training, Zurich, Switzerland	10/2013
<b>Leadership Skills</b> (30 hours), Center for Advanced Training, Zurich, Switzerland	11/2013