Prof. Dr. Malte Oppermann

CONTACT INFORMATION

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ResearcherID:	AAD-6618-2021
EDUCATION	
09/2009 – 07/2013	Ph.D. in Physics – Imperial College London, United Kingdom (UK) Diploma date: 1 November 2013 Thesis title: "Resolving strong field dynamics in cation states of CO ₂ via optimised molecular alignment". Supervisor: Prof. Jon P. Marangos
09/2006 - 06/2009	B.Sc. in Physics – Jacobs University Bremen, Germany
09/2004 – 07/2006	German Abitur – Eichenschule Scheessel, Germany
EMPLOYMENT HIS	TORY
09/2022 – present	Assistant professor (tenure track) – Universität Basel, Switzerland
	Principal investigator of the laboratory for ultrafast spectroscopy and chiral molecular dynamics in the Department of Chemistry at University of Basel.
03/2015 – 08/2022	Postdoctoral researcher & laboratory manager in the Laboratory for Ultrafast Spectroscopy – École Polytechnique Fédérale de Lausanne (EPFL), Switzerland
	Responsible for the organization, supervision, and maintenance of research activities in the ultrafast ultraviolet laser spectroscopy laboratory of Prof. Majed Chergui. Personal research focused on the ultrafast dynamics of metal complexes, DNA systems, and proteins and the development and application of ultrafast chiral spectroscopy.
09/2009 - 07/2013	Doctoral assistant in the Quantum Optics & Laser Science Group – Imperial College London, UK
	Conducted experiments on laser-induced strong field ionization & fragmentation dynamics in laser-aligned CO ₂ . Constructed TOF-MS instrument from refurbished parts and developed a novel methodology to characterize and optimize laser-induced molecular alignment in carrier-gas-seeded molecular beams.
05/2012	Visiting researcher – Aarhus University, Denmark
	Two-week collaborative experiment in the laboratory of Prof. Henrik Stapelfeldt, investigating strong field dynamics in laser-aligned, state-selected halogenated benzenes.
02/2009 - 06/2009	Research assistant – Jacobs University Bremen, Germany
	Supported experiments on surface-enhanced femtosecond coherent anti-Stokes Raman scattering in the research group of Prof. Materny.
07/2008 – 09/2008	Intern in the Quantum Optics & Laser Science Group – Imperial College London, UK Developed a quality control procedure to assess the temperature stability of laser parts in the group of Prof. Smith.

APPROVED RESEARCH PROJECTS

07/2015 – 06/2017 **German Academic Exchange Service**, Individual Fellowship: "Ultrafast studies of nonadiabatic excited state dynamics in DNA induced by ultraviolet radiation"

TEACHING ACTIVITIES

09/2022 - present Assistant professor (tenure track) - Universität Basel, Switzerland Lecturer on the undergraduate course "Physikalische Chemie IV: Molekulare Dynamik und elektronische Struktur" (10860-01, 3 ECTS credits) and the graduate course "Advanced Molecular Spectroscopy" (67276-01, 3 ECTS credits). 09/2015 - 08/2019 Lecturer - EPFL, Lausanne, Switzerland Planned and delivered the course "Electronic Spectroscopy" (CH-444, 3 ECTS credits) in the Molecular and Biological Chemistry M.Sc. program at EPFL 04/2013 - 06/2013 Visiting lecturer - Camberwell College of Arts, London, UK Co-organizer of a 10-week interdisciplinary course on science visualization and communication in the undergraduate Illustration and Graphic Design programs with up to 100 students. Co-designed the course structure and delivered lectures and tutorials on visual concepts in physics. 09/2007 - 06/2009 Teaching assistant - Jacobs University Bremen, Germany Course: General Physics

MEMBERSHIPS IN SCIENTIFIC SOCIETIES & INDIVIDUAL SCIENTIFIC REVIEWING ACTIVITIES

- 2019 presentReferee for scientific journals: The Journal of Physical Chemistry Letters, Structural
Dynamics, Journal of the American Chemical Society
- 2019 present Swiss Chemical Society
- 2006 present German Physical Society

PRIZES, AWARDS, FELLOWSHIPS

2014	Springer Thesis Prize for outstanding Ph.D. research
2014	Anne Thorne Thesis Prize for experimental physics at Imperial College London
09/2009 - 08/2012	Marie Curie Fellow as part of the Initial Training Network "FastQuast"
09/2009 - 06/2010	Foreign Exchange Scholarship from the German National Academic Foundation
01/2007 - 06/2010	Fellow of the German National Academic Foundation
09/2006 - 06/2009	Scholarship from Jacobs University Bremen

INVITED TALKS

12/2022	Invited talk, PCC Christmas Symposium Basel, University of Basel, Switzerland
11/2022	Seminar, Edinburgh University, Edinburgh, United Kingdom
11/2022	Seminar, Heriot-Watt University, Edinburgh, United Kingdom
12/2021	Invited talk (online), PACIFICHEM2021, Honolulu, Hawaii
05/2021	Invited talk, RESOLV Summer School Lecture Series 2021, Bochum, Germany
11/2019	Seminar, Max Planck Institute for the Structure and Dynamics of Matter, Hamburg, Germany

08/2019	Seminar, Imperial College London, United Kingdom
04/2019	Invited talk, Lorentz Workshop for Chirality in Industry, Leiden, Netherlands
03/2019	Invited talk, Max Planck Institute for the Science of Light Research Symposium, Erlangen, Germany
10/2018	Seminar, Universität Frankfurt, Frankfurt, Germany

CAREER BREAKS

08/2013 – 08/2014 Gap year in South America: backpacking and working at organic farms

LANGUAGES

German (native), English (fluent), Spanish (fluent), French (B2)

PERSONAL DETAILS

Date of birth:4 November 1986Nationality:GermanPersonal interests:Making ceramics, cooking, cycling, table tennis