Prof. Dr. habil. Mathias Kläui - Curriculum Vitae

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Date of birth:	18. August 1976	Nationality:	German
Place of birth:	Zürich (CH)	Marital status:	Married, 1 child

Professional Life and Work Experience

July 2011 -	**Institut für Physik, Johannes Gutenberg-Universität Mainz** W3 Full Professorship for Condensed Matter Phyiscs. Director Materials Science in Mainz (2012-) Director Gutenberg College for Young Researchers (2014-)
April 2010 – June 2011	**Laboratory of Nanomagnetism and Spin Dynamics** **Paul Scherrer Institut (PSI) & Ecole Polytechnique Fédérale de Lausanne (EPFL), Switzerland** Associate Professor and Group Leader
2008 – 2010	**Universität Konstanz**, Germany Leader of an independent Research Group funded by a European Research Council Starting Independent Researcher Grant.
2003 – 2008	**Universität Konstanz**, Germany Junior Lecturer (Wiss. Assistent, Habilitation 2008)
2003 – 2005	**IBM Research Laboratory Zürich,** Rüschlikon, Switzerland Postdoctoral Fellow
2001 (4 months)	**Toyota Technological Institute**, Nagoya, Japan Visiting Scientist
2001 – 2004 (altogether 3 months)	**Laboratoire Louis Néel – CNRS**, Grenoble, France Multiple stays as Visiting Scientist
2001	**DESY - Deutsches Elektronensynchrotron,** Hamburg, Germany Intern

Education

2008	Habilitation "Head-to-head Domain Walls in Magnetic Nanostructures" **Universität Konstanz**, Konstanz, Germany
2001-2003	PhD in Physics "Nanomagnetism of high-symmetry structures" **University of Cambridge**, UK
1999-2000	Master of Philosophy in Physics **University of Cambridge**, UK
1996-2001	Diploma in Physics (Top grade: With Distinction) **Rheinisch-Westfälische Technische Hochschule Aachen**, Germany
1987-1996	School Leaving Certificate Abitur

Awards and competetive scholarships

Postdoctoral	● Nicholas Kurti Prize for Research in Physical Sciences ● Starting Independent Researcher Grant of the European Research Council ● Physics Prize of the Academy of Sciences Göttingen ● Max Auwärter Award for outstanding contributions to surface physics ● Scholar of the Elite-Program of the Landesstiftung Baden - Württemberg ● Founding Member of the Global Young Academy ● Member of the Young Academy (Junge Akademie) of the Berlin Brandenburg Academy of Sciences and the German National Academy of Sciences Leopoldina ● Member of the Zukunftskolleg - Centre for Junior Research Fellows in Konstanz ● Scholarship of the German Academic Exchange Service (DAAD)
PhD	● Distinguished Clerk Maxwell Scholar of the Cavendish Laboratory, Cambridge ● Engineering and Physical Sciences Research Council Scholarship ● Fellow of the Cambridge European Society ● Scholarship of the Japan International Science / Technology Exchange Center ● Conference awards (APS March Meeting 2002, CMMP 2003)
Diploma	● Springorum Medal of Excellence (RWTH Aachen) ● Scholar of the German National Academic Foundation (Studienstiftung des Deutschen Volkes)

Skills and Activities

Languages:	German (native), Englisch (fluent), French (fluent), Dutch (basic), Japanese (basic), Italian (basic)
Scientific Focus:	Nanomagnetism and Spin Dynamics on the Nanoscale: Spin Transfer Torque - Current-induced domain wall motion, Ultrafast spin dynamics, Magnetotransport and magnetoresistance effects, Spin transport and spin injection in metals and graphene, Spin-orbit effects including spin orbit torques, Spin – caloritronics, Micromagnetic numerical simulations; Memory, logic and sensing applications.
Professional Activities:	● >128 reviewed publications (h-factor 32), 5 patents, >15 reviews, >75 invited presentations at universities, >55 invited conference presentations >75 other contributions including tutorials, summer school lectures, etc. ● >5 Mio. € third party funding in the last 5 years. ● >250h of university didactics courses, Hochschuldidaktikzertifikat Baden Württemberg, Undergraduate and Graduate lecture courses. ● Supervision of >30 Postdocs, PhDs, students and interns and mentoring of >5 senior postdocs that obtained permanent positions in academia. ● Director Materials Science in Mainz and Gutenberg Nachwuchskolleg ● Leader of a research group on low power IT devices and renewable energies within the think tank “Neue Verantwortung” ● Development of courses on ethical research practices in academia, and courses on conception and planning of research projects. ● Organization, chairman and program committee member of various conferences (Heraeus Meeting, Quantum Coherence Workshop, British-German Frontiers of Science Workshops, MMM, Intermag, NewSpin…) ● Reviewer for various journals (Nature family PRL, Nano Lett, etc.) Reviewer for projects (NSF, ANR, AERES, DFG, EPSRC, FAS, etc.) ● Senior Member of the IEEE, Member of the IEEE Magnetism Society Technical Committee, Advisory board of CINEMA, COMATT,...