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### PROFESSIONAL EXPERIENCE

- Senior Research Scientist, SR Fellow since May 2015  
*National Physical Laboratory  
 Teddington, United Kingdom*
- Postdoctoral researcher, Feodor Lynen fellow of the Humboldt Foundation August 2012 – August 2014  
*National Institute of Standards and Technology  
 Boulder CO, USA*
- Postdoctoral researcher, Time and Frequency Division October 2011 – April 2015  
*National Institute of Standards and Technology  
 Boulder CO, USA*
- Postdoctoral researcher March 2011 – September 2011  
*Menlo Systems GmbH/Max Planck Institute of Quantum Optics  
 Martinsried/Garching, Germany*
- Research associate June 2010 – July 2010  
*Ecole Polytechnique Federale de Lausanne, Switzerland*
- Research associate May 2007 – February 2011  
*Max Planck Institute of Quantum Optics, Garching, Germany*
- Working student in the Laserspectroscopy Division May 2006 – April 2007  
*Max Planck Institute of Quantum Optics, Garching, Germany*
- Teaching assistant for higher mathematics Oct. 2004 – April 2006  
*RWTH Aachen, Lehrstuhl 1 für Mathematik, Prof. Wiegner, Aachen, Germany*

### EDUCATION

- Doctoral degree in physics** Apr. 2011  
 Thesis: “*Optical frequency comb generation in monolithic microresonators*”  
 (*summa cum laude*)  
 Ludwig-Maximilians-University Munich, Max Planck Institute of Quantum Optics, Germany
- Diploma degree in physics** Apr. 2007  
 Thesis: “*Cascaded parametric frequency conversion in monolithic microresonators*”  
 Ludwig-Maximilians-University Munich, Max Planck Institute of Quantum Optics, Germany
- Undergraduate studies** Sept. 2004  
 Rheinisch-Westfälische Technical University Aachen (RWTH), Germany

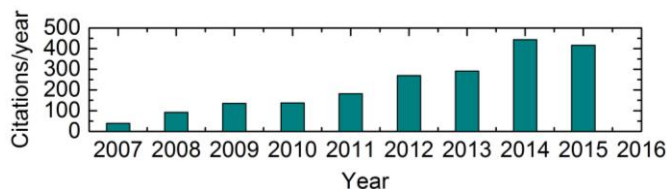
### SELECTED PUBLICATIONS\*

1. P. Del'Haye, A. Schliesser, O. Arcizet, T. Wilken, R. Holzwarth and T.J. Kippenberg  
 “*Optical frequency comb generation from a monolithic microresonator*”,  
**Nature** 450, 1214-1217 (Dec. 2007) [**704 citations**]
2. A. Schliesser, P. Del'Haye, N. Nooshi, K.J. Vahala and T.J. Kippenberg  
 “*Radiation pressure cooling of a micromechanical oscillator using dynamical backaction*”,  
**Physical Review Letters** 97, 243905 (Dec. 2006) [**468 citations**]
3. P. Del'Haye, K. Beha, S.B. Papp, S.A. Diddams  
 “*Self-injection locking and phase-locked states in microresonator-based optical frequency combs*”,  
**Physical Review Letters** 112, 043905 (Jan. 2014) [**54 citations**]

4. P. Del'Haye, O. Arcizet, A. Schliesser, R. Holzwarth and T.J. Kippenberg  
 “Full stabilization of a microresonator-based optical frequency comb”,  
**Physical Review Letters** 101, 053903 (Aug. 2008) [149 citations]
5. P. Del'Haye, O. Arcizet, M.L. Gorodetsky, R. Holzwarth and T.J. Kippenberg  
 “Frequency comb assisted diode laser spectroscopy for measurement of microcavity dispersion”,  
**Nature Photonics** 3, 529-533 (Aug. 2009) [115 citations]

\*citation data based on Google Scholar

Citation indices	All	Since 2010
Citations	2023	1743
h-index	14	14
i10-index	17	17



### CONFERENCES AND SEMINARS

More than **30 talks** at international conferences and workshops, including **13 invited talks**

### STIPENDS AND AWARDS

- **European Physical Society QOED Thesis Prize for Fundamental Aspects** May 2013  
 “Discovery and Development of Microresonator-Based Frequency Combs”
- **Feodor Lynen Fellowship of the Humboldt Foundation** for research on 2012-2014  
 “Microcombs for Optical Clocks”
- Postdoc in the “Professional Research Experience Program” at CU Boulder 2011-2015
- Finalist of the **Theodore Maiman Student Award**, CLEO/IQEC, San Jose, USA May 2010  
 Student prize granted by HRL Laboratories, LLC, IEEE Photonics Society, APS and OSA  
 for the paper “Octave-spanning tunable frequency combs on a chip”
- **Helmholtz Prize for Metrology** June 2009  
 For the “Development of microresonator based frequency combs”
- Finalist of the **Theodore Maiman Student Award**, CLEO/IQEC, Baltimore, USA June 2009  
 Student prize granted by HRL Laboratories, LLC, IEEE Photonics Society, APS and OSA  
 For the paper “Precision spectroscopy with a scanning diode laser and measurement of  
 microcavity dispersion”
- **Best of Topicals Award**, Frontiers in Optics, San Jose USA Sept. 2007  
 Awarded by the Optical Society of America for the conference submission  
 “Optical frequency comb generation from a monolithic micro-resonator via the Kerr  
 nonlinearity”
- **E-fellows** fellowship 2004 - 2011

### BOOKS/BOOK CHAPTER

- **“Optical frequency comb generation in monolithic microresonators”** 2011  
 Dissertation, Publisher: Dr. Hut Verlag, ISBN 978-3868539318
- **“Optical frequency comb generation”** in “Practical Applications of Microresonators  
 in Optics and Photonics“, Editor Andrey Matsko, Taylor & Francis Group, ISBN 978-1420065787 2009

### PATENTS/PATENT APPLICATIONS

- “Laser Machining and Mechanical Control of Optical Resonators”  
 US Pat. App. No. 61/698,741
- “Method and apparatus for optical frequency comb generation using a monolithic micro-resonator”  
 EU Pat. App. No. 07009067.5, US Patent 7982944, Japan Patent 2009-020492
- “Method and apparatus for frequency comb assisted laser spectroscopy”  
 US Pat. App. No. 61/217,220, provisional patent application