ARNAUD COMMENT

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ORCID ID: 0000-0002-8484-3448; Web of Science ResearcherID: G-5693-2011; Scopus Author ID: 8517770400

Date of birth: September 20, 1973
Citizenships: Swiss and British
Divorced
Three children: Clara, Loïc, and Charlie

- **EDUCATION**

2003 **PhD in Physics** (EPFL, Switzerland) supported by the US Department of Energy and entirely completed in the Department of Physics of the University of Illinois at Urbana-Champaign, USA (11/12/2003); Main advisor: Prof. Charles P. Slichter
1999 **Master in Physics**; Department of Physics, EPFL, Switzerland

- **CURRENT POSITION**

2020 – Present Manager, Hyperpolarized 13C Imaging
GE HealthCare

- **PREVIOUS POSITIONS**

2016 – 2022 Visiting Scientist (PI supported by ERC Consolidator grant)
Cancer Research UK Cambridge Institute, University of Cambridge, UK
2015 – 2020 Senior Scientist, Hyperpolarized 13C Imaging
General Electric Healthcare
2011 – 2015 Assistant Professor
Institute of Physics of Biological Systems, EPFL, Switzerland
2008 – 2011 Research Scientist
School of Biology and Medicine, University of Lausanne, Switzerland
2005 – 2008 Research Associate
Institute of Nanostructure Physics, EPFL, Switzerland
2004 – 2005 Research Associate
Grenoble High Magnetic Field Laboratory, CNRS/Max Planck Institute, Grenoble, France

- **SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS**

2016 – 2022 Advisor of 4 Postdoctoral researchers at the University of Cambridge, UK
2005 – 2017 Advisor/Co-advisor of 8 Postdocs, 8 PhD students, and 4 Master students at EPFL, Switzerland

- **PUBLICATIONS**

2000 – Present 85 Journal articles; 7 book chapters; 9 patents; more than 200 conference abstracts;
H-factor of 34 according to Web of Science

- **INVITED LECTURES**

2008 – Present 40 Invited presentations at international conferences
2007 – Present 32 Invited lectures at international universities

- **ORGANIZATION OF SCIENTIFIC MEETINGS**

2021 *Thinking Hyperpolarization: A Multinuclear Window into the Brain*
Vancouver, BC, Canada; Co-organizer of ISMRM Member-initiated Symposium
2018 *Moving from Preclinical to Clinical Applications of Hyperpolarised MRI: Successes & Challenges*, Paris, France; Head of organizing committee of ISMRM Member-initiated Symposium
2016 *The principles of dynamic nuclear polarization*, Tramelan, Switzerland; Organizer of Summer School
2011 *Third International Symposium on DNP*, Lausanne, Switzerland; Head of organizing committee

- **INSTITUTIONAL RESPONSIBILITIES AND EXTERNAL SERVICE ACTIVITIES**

2011 – Present Member of 4 PhD thesis committees (University of Trieste, Italy; Université Victor Segalen Bordeaux 2, France (acting as committee President), University of Pavia, Italy; ETH Zürich, Switzerland), and 4 PhD preliminary examination committees (University of Cambridge, UK; ETH Zürich; Université de Lausanne, Switzerland)

2011 – Present Reviewer for the following institutions: University of California, San Francisco, USA; University of Texas Southwestern Medical Center, USA; University of Texas, Dallas, USA; Weizmann Institute, Israel; Technion – Israel Institute of Technology, Israel; University Paris Descartes, France; University de Paris, France

2011 – Present Reviewer for the European Research Council Executive Agency, The Royal Society, the Israel Science Foundation, the German Research Foundation, the French National Research Agency, and the Swiss National Science Foundation;

2011 – Present Reviewer for numerous scientific journals, including Proc Natl Acad Sci USA, NeuroImage, Phys Rev Lett, J Am Chem Soc, Angew Chem Int Ed, Phys Rev B, Sci Rep, J Phys Chem Lett, Magn Reson Med, J Nucl Med, Mol Imag, Cancer & Metab, and J Card Magn Reson.

2013 – 2015 Member of 3 PhD thesis committees, EPFL, Switzerland

2012 – 2015 Member of the Physics Doctoral Program Committee, EPFL, Switzerland

2009 – 2015 Member of 3 PhD preliminary examination committees, EPFL, Switzerland

2010 Panel member at the Hyperpolarized 13C Workshop organized by the National Cancer Institute of the U.S. NIH on May 4, 2010 in Älvsjö, Sweden

- **POSITIONS OF TRUST**

2026 – Present Member of the SAB for the InnovaRTBRAIN Marie Skłodowska-Curie Actions DN project

2017 – 2020 Elected member of ISMRM Hyperpolarized Media MR Study Group Governing Committee

2019 EMIM 2019 Category Chair for the "Imaging Metabolism" category for the EMIM 2019, Glasgow, UK
Chairman of the "MRI & MRS Technologies" session at the EMIM 2019, Glasgow, UK

2018 Chairman of the "MRI and Hyperpolarization Technology" poster walk session at the 13th European Molecular Imaging Meeting, San Sebastián, Spain

2016 Chairman of the "MRI and MPI | Technology & Methods" poster walk session at the 11th European Molecular Imaging Meeting, Utrecht, The Netherlands

2014 Chairman of the "Hyperpolarized Contrast Agents" scientific session at the Joint Annual Meeting ISMRM-ESMRMB, Milan, Italy

2013 Chairman of the "Imaging Metabolism with Hyperpolarized Nuclei" educational session at the 21st Annual Meeting of the ISMRM, Salt Lake City, UT, USA

2011 – 2018 Member of the External Advisory Board for the French Education and Research Ministry LabEx TRAIL (Translational Research and Advanced Imaging Laboratory) and LERMIT (Laboratory of Excellence in Research on Medication and Innovative Therapeutics) projects

2009 – 2011 Committee member of the External Advisory Board at the Advanced Imaging Research Center of the University of Texas Southwestern Medical Center for evaluation of the research funded by the NCRR division of the U.S. NIH (P41 grant)

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

International Society for Magnetic Resonance in Medicine and European Society for Molecular Imaging.

- **RESEARCH FUNDING**

Since 2009, I have obtained 12 grants for scientific projects (9 of them as main PI), including 5 from the European Commission and 6 from the Swiss National Science Foundation. In addition, I have obtained 1 travel grant from the NIH and 2 grants for the organization of an international conference. These amount to about 10 M€.

- **HONORS AND AWARDS**

2024 – Present Full Member of The Scientific Research Honor Society Sigma Xi

2023 – Present Friend of St Edmund's College, University of Cambridge

2018 – 2023 Bye Fellow of St Edmund's College, University of Cambridge

2013 & 2014 ISMRM merit awards (summa cum laude and magna cum laude) for conference abstracts

2013 Selected by the Editor as one of the top 5 reviewers for the Journal of Magnetic Resonance

2011 & 2012 Distinguished Reviewer Award from Magnetic Resonance in Medicine

2011 Swiss National Science Foundation Professorship award

2001 – Present Member of The Honor Society of Phi Kappa Phi, University of Illinois