

Curriculum Vitae

1. Personal details

Name: Telkki, Ville-Veikko Aukusti

Research ID: F-8506-2014

Year of birth: 1978

Nationality: Finnish

Website: <http://cc.oulu.fi/~nmrwww/>



2. Education and degrees completed

- **Docent** in Experimental Materials and Molecular Physics, 1.6.2012, University of Oulu, Finland
- **PhD** in Physics, 16.3.2006, University of Oulu, Finland
- **MSc** in Physics, 10.10.2002, University of Oulu, Finland

3. Current position

- **Professor** in NMR spectroscopy, 1.10.2018 –, NMR Research Unit, University of Oulu, Finland
- **Academy Research Fellow** (Academy of Finland), 1.9.2015 – 31.8.2020

4. Previous work experience

- **Senior Researcher** (yliopistotutkija), 1.8.2011 – 31.8.2015, recruitment package funded by the University of Oulu strategic grant (international call), Department of Physics, University of Oulu, Finland
- **Facility Manager (NMR laboratory)**, 1.4.2011 – 31.7.2011, University of Oulu, Finland
- **Postdoctoral Researcher**, 1.1.2011 – 31.3.2011, Department of Physics, University of Oulu, Finland
- **Postdoctoral Research Fellow of Academy of Finland**, 1.1.2008 – 31.12.2010, University of Oulu, Finland
- **Senior Assistant**, 1.1.2007 – 31.12.2007, Department of Physical Sciences, University of Oulu, Finland
- **Postdoctoral Researcher**, 25.8.2005 – 13.12.2006, research group of prof. Alexander Pines (the Pines Lab), Department of Chemistry, University of California, Berkeley, USA

5. Personal research funding and grants

- European Research Council (ERC), **Consolidator Grant (CoG)** project, 1.4.2018 – 31.3.2023, **2 625 000 €**
- University of Oulu, **Strategic Matching Fund** for the ERC CoG project, 1.4.2018 – 31.3.2023, **700 000 €**
- Academy of Finland, **Academy Research Fellow** project and **funding for research costs**, 1.9.2015 – 31.8.2020, **784 485 €**
- EU **Marie Skłodowska-Curie action individual fellow funding**, for Dr. Petr Stepanek (main supervisor Dr. Anu Kantola), 2015-2017, **180 000 €**
- Research Fellow in experimental NMR spectroscopy (Senior Researcher), **recruitment package**, Oulu University Strategic Grant, 2011-2016, **220 000 €**
- Academy of Finland, **Postdoctoral researcher funding**, 1.1.2008 – 31.12.2010, **187 000 €**

6. Leadership and supervision experience

- **Leader of the NMR Research Unit**, 1.1.-31.10.2020.
- **Leader of the Experimental NMR Research Group** (currently including the PI, 2 senior researchers, 4 postdocs, 5 PhD students and a few MSc students) since March 2012.
- **Supervision of post-doc researchers:** Dr. Susanna Ahola, Dr. Anu Kantola, Dr. Sanna Komulainen, Dr. Sarah Mailhiot, Dr. Anne Selent, Dr. Mateusz Urbanczyk and Dr. Vladimir Zhivonitko
- **Main supervisor of 4 PhD theses:** Asadullah Javed (2019), Anne Selent (2017), Päivi Kekkonen (2014), Susanna Ahola (2011)
- **Secondary supervisor of 3 PhD theses:** Vasantha Gowda (2017), Jani Saunavaara (2009), Pekka Tallavaara (2008)
- **Main supervisor of 4 PhD theses in progress:** Otto Mankinen (estimated year for Ph.D. degree: 2020), Roya Khalili (2021), Sharif Ullah (2022) and Yashu Kharbanda (2022)
- **Secondary supervisor of 2 PhD thesis in progress:** Megha Mohan (2021) and Jing Li (2022).
- **Main supervisor of 15 MSc theses**

7. Teaching experience

- **University pedagogic studies**, 25 ECTS credits, 17.1.2011
- **Extended pedagogic studies for University teachers**, 60 ECTS credits, in progress

- **Lecturer in the following courses:** NMR spectroscopy, NMR imaging, Spectroscopic methods, Basic Thermodynamics, Wave motion, Physical Measurements
- **Director of doctoral degree program in Physics and Astronomy**, 1.1.2018 -
- **Coordinator and person in charge** for international master's degree program "Magnetic Resonance in Materials", 2010-2014

8. Experience of organizing scientific meetings

- **Chair of the organization committee of 41st Finnish NMR symposium**, Rokua, Finland, 2019
- **Member of the organization committee of Physics Days 2016 (50th Annual Meeting of the Finnish Physical Society)**, Oulu, Finland, 2016
- **Member of the organization committee of 36th Finnish NMR symposium**, Iso-Syöte, Finland, 2014
- **Member of the organization committee of combined international Xenon in Materials (XeMat) conference and 31th Finnish NMR symposium**, Ruka, Finland, 2009

9. Patents, inventions, awards and honours

- **US patent application 11/655,132:** "Method of determining pore characteristic using ¹²⁹Xe NMR". Inventors: Jukka Jokisaari, Juhani Lounila and Ville-Veikko Telkki. Granted in 2010.
- **European Research Council (ERC) Consolidator Grant (CoG)**, 1.4.2018 – 31.3.2023, 2 625 000 €
- **Academy Research Fellow**, Academy of Finland, 1.9.2015 – 31.8.2020, 784 485 €

10. Other key scientific or academic merits

- Finnish representative of the **Committee of the Groupement Ampere**, 2014-
- **Member of management committee** of COST action CA15209 "European Network on NMR Relaxometry", 26.2.2016-25.2.2020
- **Member of management committee** of COST action TD1103 "European Network for Hyperpolarization Physics and Methodology in NMR and MRI", 18.10.2011-27.10.2015
- **Chair of the board of Finnish NMR society**, 2018-19
- **Member of Faculty Board**, Faculty of Science, University Oulu, Finland, 2013-17
- **Member of Doctoral training committee for Technology and Natural Sciences**, University of Oulu, Finland, 2018-
- **Reviewer of 22 international scientific journals** (Nature Materials, Nature Communications etc.)
- **Opponent for the PhD thesis** of Ekaterina Nikolskaya (University of Eastern Finland, 2019)
- **Jury member for the PhD thesis** of Boris Gouilleux (University of Nantes, 2017)
- **Pre-examiner of one PhD thesis:** Tommi Virtanen (University of Helsinki, 2014)

Invited presentations:

1. **V.-V. Telkki:** "Multidimensional relaxation and diffusion measurements", invited lesson in the Ampère NMR school, Zakopane, Poland, 23.-29.6.2019.
2. **V.-V. Telkki:** "Ultrafast multidimensional Laplace NMR", invited lecture in the Swedish NMR meeting, Gothenburg, Sweden, 23.-25.10.2018.
3. **V.-V. Telkki:** "Pulses for ultra-fast experiments", invited tutorial lecture in the German Chemical Society (GDCh) sub-division Magnetic resonance annual meeting, Leipzig, Germany, 10.-13.9.2018
4. **V.-V. Telkki:** "Ultrafast Laplace NMR using a single-sided magnet", invited lecture in the Euromar 2018 meeting, Nantes, France, 1.-5.7.2018.
5. **V.-V. Telkki:** "MRI of materials and chemical reactions", invited lesson in the Ampère NMR school, Zakopane, Poland, 10.-16.6.2018.
6. **V.-V. Telkki:** "Ultrafast Laplace NMR", invited lecture in Compact NMR Symposium, Nantes, France, 18.-19.10.2017.
7. **V.-V. Telkki:** "Laplace NMR", invited lesson in the Ampère NMR school, Zakopane, Poland, 25.6.-1.7.2017.
8. **V.-V. Telkki:** "Advanced NMR Methods for Materials Research", invited plenary talk in the 38th Danish NMR meeting, Nyborg, Denmark, 16.-17.1.2017.
9. **V.-V. Telkki:** "Laplace NMR", invited lesson in the NMR school of the 13th International Bologna Conference on Magnetic Resonance in Porous Media (MRPM13), Bologna, Italy, 4.-8.9.2016.
10. **V.-V. Telkki, V. V. Zhivonitko, K. Chernichenko, T. Repo, M. Leskelä, V. Sumerin and I. V. Koptuyug:** "Metal-Free Catalysts for PHIP", invited plenary talk in COST annual meeting "Spin Hyperpolarisation in NMR and MRI", Zurich, Switzerland, 27.-29.6.2014.