

Center for Emergent Matter Science, RIKEN  
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## Curriculum Vitae : Peter Staňo

**Name:** Peter Staňo  
**Nationality:** Slovak  
**Born:** 11.10.1975, Partizánske, Slovakia  
**Family status:** married

### Position

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senior research scientist	2013 - present	CEMS RIKEN, Japan Quantum System Theory Research Team
visiting ass. Prof.	2017 - 2020	The University of Tokyo Department of Applied Physics, School of Engineering
SCIEX fellow	2012 - 2013	University of Basel, Switzerland Condensed Matter Theory and Quantum Computing Group
research fellow (senior since)	2007 - present	Academy of Sciences, Slovakia Institute of Physics
post-doc	2009 - 2011	University of Arizona, Tucson, USA Department of Physics
PhD (finished)	2005 - 2007	University of Regensburg, Germany Physics Faculty, Institute I (Theoretical Physics)
PhD (started)	2003 - 2005	Karl Franc University Graz, Austria Institute of Physics
exchange student	autumn 2002	University of Helsinki, Finland Department of Physical Sciences

### Education

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PhD	2007	University of Regensburg, Germany defense on 23 March
Master	2003	Comenius University, Bratislava, Slovakia Diploma in Mathematical Physics
Master	1999	University of Economics, Bratislava, Slovakia Diploma in Corporation Management
high school	1990 - 1994	Gymnasium, Partizánske, Slovakia Matura

### Teaching

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2018	Majorana fermion – what it is and what it is not special course at the University of Tokyo
2017	Quantum information hardware with semiconductors special course at the University of Tokyo
2009	Spin qubits in quantum dots (lecture series) @ V4 summer school in quantum information, Budmerice, 21-27.9.

## Research Interests / Experience

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Modern topics (topological states of matter)	Majorana fermions and parafermions Synthetic spin-orbit interactions in quantum wires
Spintronics	Electrical measurement of spin current
Spin qubits in quantum dots	Numerical modeling focused on relaxation and decoherence Coherent long distance coupling
Nonlinear systems	Interplay of non-linearity and Anderson localization
Mesoscopic transport	Landauer-Buttiker formalism Effects of interactions in few particle systems
Quantum information theory	Mathematical description of the measurement process Coexistence of effects, observables, instruments

**Publications summary: 65 publications, 2800+ citations, H-index 26**

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## Awards/stipends

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2016-2018	Kakenhi C grant (16K05411)
2016	CEMS Research Award Awarded by the Center of Emergent Matter Science, RIKEN
2015	Among the most representative projects of the SCIEX program
2012	The best research result of Institute of Physics in category "Basic research"
2012	SCIEX CRUS research fellow stipend
2011	The 2nd best research result of Institute of Physics in category "International research"
2009	DAAD (German Ministry of Education) research visit stipend
2008	1.-2. place in Scientific works of young physicists awarded by Slovak Physical Society
2007	four year Schwarz stipend for a starting postdoc awarded by Slovak Academy of Sciences

## Letters of recommendation

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Please contact the following persons

- ★ Prof. Dr. Jaroslav Fabian, University of Regensburg, Germany  
jaroslav.fabian@physik.uni-regensburg.de (PhD supervisor)
- ★ Prof. Philippe Jacquod, University of Arizona, Tucson, USA  
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- ★ Prof. Dr. Daniel Loss, University of Basel, Switzerland  
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- ★ Prof. Dr. Igor Zutic, University of Buffalo, USA  
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- ★ Ao. Univ. Prof. Mag. Dr. Ulrich Hohenester, KF University Graz, Austria  
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- ★ Prof. RNDr. Peter Presnajder, CSc., Comenius University Bratislava, Slovakia  
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