

Personal Details

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Professional Experience

11/2019 – present W1 professorship for Systems Neurophysiology at Saarland University
 Centre for Integrative Physiology and Molecular Medicine (CIPMM)
 2018 – 2019 Visiting scientist, DFG Return Fellow
 Centre for Molecular Neurobiology (ZMNH)
 University Medical Center Hamburg-Eppendorf, Germany
Maternity leave 08/2018 – 06/2019, 2nd child
 2015 – 2018 DFG Postdoctoral Research Fellow
 Centre for Discovery Brain Sciences, University of Edinburgh, UK
Maternity leave 08/2016 – 04/2017, 1st child
 2013 – 2015 Leopoldina Postdoctoral Research Fellow
 Centre for Integrative Physiology, University of Edinburgh, UK
 2006 – 2012 PhD thesis
 Institute for Neurophysiology, Goethe-University Frankfurt, Germany
 12/2012: PhD thesis defense (Dr. phil. nat, *summa cum laude*)
 2000 – 2005 Human Biology, Philipps University Marburg, Germany
 12/2005: Degree in Human Biology (Diplom 1.1)
 09/2002: Pre-degree (Vordiplom 1.0)
 1993 – 2000 Grammar School, Bad Gandersheim, Germany
 06/2000: Abitur (1.5)

Awards & Fellowships

08/2018 Return Fellowship *Deutsche Forschungsgemeinschaft*
 (i.e. German Research Foundation)
 07/2018 FENS-IBRO travel grant for FENS meeting 2018, Berlin
 06/2015 Research Fellowship *Deutsche Forschungsgemeinschaft*

- 02/2013 Leopoldina-Postdoc-Fellowship *Nationale Akademie der Wissenschaften*
 11/12 – 01/13 Research Stipend *Hertie Foundation*
 07/2012 Award for best talk at the Young Physiologists' Symposium
 Physiological Society, Edinburgh, Scotland, UK
 2009 – 2011 1st poster prizes:
 ICNF Symposium, Frankfurt, Germany
 IBAGS X, International Basal Ganglia Society, New Jersey, USA
 PENS summer school 'Metabolic aspects of chronic brain diseases'
 2007 – 2009 Doctoral Scholarship *Studienstiftung des deutschen Volkes*
 2003 – 2005 Scholarship *Studienstiftung des deutschen Volkes*

Scientific Responsibilities, Teaching & Training Courses

- Since 2019 Lecturer for MSc and BSc students
 06/13 & 06/14 Teaching assistant at the "Ion Channels & Synaptic Transmission"
 course at Cold Spring Harbor Laboratories, USA
 since 2008 Conception and day-to-day supervision of diploma, master and doctoral projects
 since 2008 Training of colleagues in *in vivo* recording techniques, microsurgery, data analyses
 2007 – 2011 Teaching and assessment of medical students in physiology;
 course supervisor for e.g. 'Muscle and nerve', 'Exercise physiology', 'Sensory physiology'
 08/2010 Otto Loewi International Course 'Advanced Methods in neurophysiology
 – *in vivo* intracellular recordings', Eilat, Israel
 2003 – 2004 Internships in different neurobiology labs, e.g.
 University Marburg and Karolinska Institute Stockholm, Sweden

Selected talk invitations

- 01/2020 European Neuroscience Institute (ENI), Göttingen, Germany
 11/2019 SFB1089 Retreat, Bonn, Germany
 05/2018 Life and Brain Center, Bonn, Germany
 11/2017 Center for Molecular Neuroscience (ZMNH), Hamburg, Germany
 11/2017 SFB894, Center for Integrative Physiology & Molecular Medicine, Homburg, Germany
 01/2017 Systems Neuroscience Symposium, Erlangen, Germany
 03/2016 Annual Meeting German Physiological Society, Lübeck, Germany
 06/2015 Seminar series 'Future Leaders in Neuroscience', Manchester, UK
 06/2014 Department of Neuroscience, Karolinska Institute Stockholm, Sweden
 07/2012 Young Physiologists' Symposium, Physiological Society, Edinburgh, UK
 03/2012 Annual Meeting German Physiological Society, Dresden, Germany
 04/2010 Neurophysiologists' Workshop, Heidelberg, Germany
 09/2009 ENI network meeting, Geneva, Switzerland

Memberships

2013 – 2016	Committee work George Square Postdoc Society (G ² PD, University of Edinburgh)
since 2013	<i>Neurowissenschaftliche Gesellschaft</i> (NWG, German Neuroscience Society)
since 2008	<i>SciMento</i> , mentoring for women in science
2008 – 2012	Member of the jury <i>Jugend forscht</i> (i.e. Youth in Research)
2008 – 2011	Representative of doctoral students, Goethe-University Frankfurt Interdisciplinary Centre for Neuroscience Frankfurt (ICNF)

Selected publications

- ◇ J. Dacre, M. Colligan, J. Ammer, **J. Schiemann**, T. Clarke, V. Chamosa-Pino, F. Claudi, J.A. Harston, C. Eleftheriou, J.M.P. Pakan, C.C. Huang, A. Hantman, N.L. Rochefort, I. Duguid
Cerebellar-recipient motor thalamus drives behavioral context-specific movement initiation
pre-print: <https://www.biorxiv.org/content/biorxiv/early/2019/10/16/802124.full.pdf>
Neuron, in revision
- ◇ S. Albert, M. Messer, **J. Schiemann**, J. Roeper, G. Schneider
Multi-Scale Detection of Variance Changes in Renewal Processes in the Presence of Rate Change Points
Journal of Time Series Analysis, 2017, 38(6): 1028-1052
- ◇ **J. Schiemann**^{*}, P. Puggioni^{*}, J. Dacre, M. Pelko, A. Domanski, M. v. Rossum, I. Duguid
^{*}*shared first authors*
Cellular mechanisms underlying behavioral state-dependent bidirectional modulation of motor cortex output
Cell Reports, 2015, 11(8):1319-30
- ◇ S. Krabbe, J. Duda, **J. Schiemann**, C. Poetschke, G. Schneider, E.R. Kandel, B. Liss, J. Roeper, E.H. Simpson
Increased dopamine D2 receptor activity in the striatum alters the firing pattern of dopamine neurons in the ventral tegmental area
PNAS, 2015, 112(12): E1498-506
- ◇ E. Dragicevic, **J. Schiemann**, B. Liss
Dopamine midbrain neurons in health and Parkinson's disease: Emerging roles of voltage-gated calcium channels and ATP-sensitive potassium channels – Review article
Neuroscience, 2015, 284:798-814;
- ◇ E. Dragicevic, C. Poetschke, J. Duda, F. Schlaudraff, S. Lammel, **J. Schiemann**, M. Fauler, A. Hetzel, M. Watanabe, R. Lujan, R.C. Malenka, J. Striessnig, B. Liss
Ca_v1.3 channels control D2-autoreceptor responses via NCS-1 in substantia nigra dopamine neurons
Brain, 2014, 137(Pt8): 2287-302

- ◇ **J. Schiemann**, F. Schlaudraff, V. Klose, M. Bingmer, S. Seino, P. J. Magill, K. A. Zaghoul, G. Schneider, B. Liss, J. Roper
K-ATP channels in dopamine substantia nigra neurons control bursting and novelty-induced exploration
Nature Neuroscience, 2012, 15(9): 1272-80

- ◇ M. Bingmer*, **J. Schiemann***, J. Roper, G. Schneider
**shared first authors*
Measuring burstiness and regularity in oscillatory spike trains
Journal of Neuroscience Methods, 2011, 201(2): 426-437