

Dr. Manuel Schottdorf

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Education

- 8/2018 - present **Postdoc** Princeton University; Advisors: Prof. Dr. David W. Tank & Prof. Dr. Carlos D. Brody.
- 2/2018 - 7/2018 **Postdoc** continuing PhD research.
- 6/2013 - 2/2018 **Ph.D. summa cum laude** The MPI for Experimental Medicine & the MPI for Dynamics and Self-Organization; Advisors: Prof. Dr. Fred Wolf (MPI-DS) & Prof. Dr. Walter Stühmer (MPI-EM).
- 10/2011 - 2/2013 **M. Sc. with honors** theoretical Physics, University of Würzburg & MPI-DS, Grade 1.0, in words: *excellent*; Advisor: Prof. Dr. Wolfgang Kinzel & Prof. Dr. Fred Wolf.
- 9/2010 - 10/2011 **M. Sc.** experimental Physics, Rutgers, the State University of New Jersey. GPA 3.9/4.0. Advisor: Prof. Dr. Eva Andrei.
- 10/2007 - 7/2010 **B. Sc.** in Physics (minor: Philosophy), University of Würzburg & Jülich Research Center, Grade 1.2, in words: *excellent*; Advisor: Prof. Dr. Bernhard Wolfrum & Prof. Dr. Peter Jakob.
- 7/2007 “Abitur” (high school diploma), Hammelburg, Germany.

Scholarship, Fellowships and Awards

- 6/2018 Otto-Hahn-Medal of the Max-Planck Society.
- 12/2013 - 12/2015 Boehringer Ingelheim Fonds PhD Fellowship.
- 9/2010 - 10/2011 Scholarship of the German Academic Exchange Service to study at Rutgers University.
- 7/2010 - 12/2012 Fellow of the Graduate Program “FOKUS Physik” of the University of Würzburg & The Elite Network of Bavaria.
- 6/2010 Invited to the 60th Lindau Nobel Laureate Meeting.
- 10/2009 - 2/2013 Max Weber scholarship in the German National Academic Foundation (0.5% of students).

Research

Articles in
peer reviewed
journals

C. L. A. Ho*, R. Zimmermann*, J.D.F. Weidinger, M. Prsa, **M. Schottdorf**, S. Merlin, T. Okamoto, K. Ikezoe, F. Pifferi, F. Aujard, A. Angelucci, F. Wolf, D. Huber†: “*Orientation Preference Maps in *Microcebus murinus* Reveal Size-Invariant Design Principles in Primate Visual Cortex*”, *Current Biology* 31: 1-9 (2021)

D. B. Nestvogel†, R. M. Merinoy*, C. L. Pinzony*, **M. Schottdorf**, C. Lee, C. Imig, N. Brose, J.-S. Rhee†: “*The Synaptic Vesicle Priming Protein CAPS-1 Shapes the Adaptation of Sensory Evoked Responses in Mouse Visual Cortex*”, *Cell Reports* 30: 3261-3269 (2020)

M. Helmer†, **M. Schottdorf**, A. Neef & D. Battaglia†: “*Gender bias in peer-review*”, *eLife* 6: e21718 (2017)

R. Samhaber*, **M. Schottdorf**†*, A. El Hady*, K. Bröking, A. Daus, C. Thielemann, W. Stühmer & F. Wolf†: “*Growing neuronal islands on multi-electrode arrays using an Accurate Positioning- μ CP device*”, *J. Neurosci. Methods* 257(1): 194-203 (2016)

M. Schottdorf*, W. Keil†*, D. Coppola, L. White & F. Wolf: “*Random wiring, ganglion cell mosaics, and the functional architecture of the visual cortex*”, *PLoS Comp. Bio.* 11(11): e1004602 (2015)

M. Schottdorf, S. Eglén, F. Wolf & W. Keil†: “*Can Retinal Ganglion Cell Dipoles Seed Iso-Orientation Domains in the Visual Cortex?*”, *PLoS ONE* 9(1): e86139 (2014)

M. Schottdorf†, B. Hofmann, E. Kätelhön, A. Offenhäusser & B. Wolfrum†: “*Frequency-dependent signal transfer at the interface between electrogenic cells and nanocavity electrodes*”, *Phys. Rev. E* 85: 031917 (2012)

B. Hofmann, E. Kätelhön, **M. Schottdorf**, A. Offenhäusser & B. Wolfrum†: “*Nanocavity electrode array for recording from electrogenic cells*”, *Lab on a Chip* 11: 1054-1058 (2011)

(* shared authorship / † corresponding author)

Recent Academic involvement

- ongoing Reviewing for PLoS CB, IEEE, PNAS, JWH, Cosyne
- 3/2018 Co-organizer of the Cosyne Workshop “The perturbing approach to understanding the brain”, Breckenridge, Colorado, USA.
- 9/2016 Main organizer of the PhD student organized 2-week advanced computational neuroscience summer school (2nd aCNS), Göttingen, Germany.