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 60^{th} 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

E.H. Nieh*, **M. Schottdorf***, N. Freeman, R. Low, S. Lewallen, S.-A. Koay, L. Pinto, J. Gauthier, C.D. Brody, D.W. Tank: *"Geometry of abstract learned knowledge in the hippocampus"*, *Nature* 595: 80-84 (2021)

M. Schottdorf, B.B. Lee: *"A quantitative description of macaque ganglion cell responses to natural scenes: the interplay of time and space"*, *J. Physiology* 599: 3169-3193 (2021)

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-μCP device"*, *J. Neurosc. 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. Eglen, 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)