

Curriculum Vitae Dr. Anna Seydell

Work Address

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Current Position

Postdoctoral Fellow Georgetown University Medical Center, Department of Physiology and Biophysics

Education

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- 2006 – 2009 University of Giessen, Germany, Department of General and Experimental Psychology
- Dr. rer. nat. (Ph.D.) in Psychology received 03/2009
 - o Thesis: *Living with Uncertainty: How humans achieve near-optimal behavior in a stochastic world*
- 2001 – 2006 University of Göttingen, Germany, Georg-Elias-Müller Institute of Psychology
- Diplom (M.Sc. equivalent) in Psychology received 04/2006, graded 1.06 (A+)
 - o Thesis: *Response Priming with Illusory-Contour Figures*, graded 1.0 (A+)
 - o Majors: Cognitive Psychology, Social and Organizational Psychology, Developmental Psychology
 - Vordiplom in Psychology received in 10/2003, graded 1.04 (A+)

Research and Teaching Experience

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- 03/2009 – present Georgetown University Medical Center, Department of Physiology and Biophysics
- Postdoctoral Fellow with Prof. Josef P. Rauschecker, investigating the neural mechanisms underlying tinnitus
- 03/2008 – 08/2008 and
05/2007 – 01/2008 University of Rochester, NY, USA, Center for Visual Science
- Research Scholar, investigating the role of prior knowledge in depth cue integration with Prof. David C. Knill
- 08 – 10/2006 University of Rochester, NY, USA, Center for Visual Science
- Short-term Scholar, collaboration with Prof. David C. Knill
- 04/2006 – 2009 University of Giessen, Germany, General and Experimental Psychology Department
- Graduate Research Assistant, Member of the Emmy-Noether-Group “Sensorimotor Decision Making” of PD Dr. Julia Trommershäuser
- 2003 – 2006 University of Göttingen, Germany
- Research Assistant, Experimental Psychology, working with Dr. Thomas Schmidt on “Response Priming and Visual Awareness”
 - Teaching Assistant, “Laboratory Practice I and II”

Awards and Fellowships

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- Spring 2008 Elsevier/Vision Research Travel Award at the Annual Meeting of the Vision Sciences Society
- 2007 – 2009 Associate member of the graduate program “NeuroAct”, funded by the German Research Foundation (DFG)
- 2001 – 2006 Student scholarship awarded by the German National Academic Foundation (Studienstiftung des deutschen Volkes)
- 03/2002 Special award by the Niedersachsen Ministry of Education for a project presented at “Jugend forscht”, a German national contest for young scientists. In this project, Marc-Aurel Busche and I used behavioral and imaging data to investigate how my brain adapted to wearing upside-down reversing glasses for 3 weeks.

Workshops and Summer Schools

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| 03/2009 | Spring School “Funktionale Magnetresonanztomographie in der psychologischen Forschung” (functional MRI in psychological research), Giessen, Germany |
| 10/2008 | Computational Workshop “Cue combination – unifying perceptual theory”, Rauischholzhausen Castle, Giessen, Germany |
| 09/2008 | European Summer School on Visual Neuroscience, Rauischholzhausen Castle, Giessen, Germany |
| 07/2008 | Workshop “Computational Neuroscience”, Michael J. Wenger, Giessen, Germany |
| 07/2006 | Computational Workshop “Bridging the gap between sensation and motor control”, Rauischholzhausen Castle, Giessen, Germany |

Internships

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| 07 – 08/2004 | Göttingen University Hospital, Psychiatry Department, locked ward |
| 02 – 03/2003 | Gymnasium Andreanum, Hildesheim, school counseling |
| 06 – 07/1999 | Center for Aiding the Disabled, Bockfeld, Hildesheim |

Relevant Skills

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| Language Skills | German (native), English (fluent) |
| Computer Skills | Matlab, C++ (basic), Presentation, SPSS, CorelDraw, SigmaPlot |

Publications

Seydell, A., McCann, B. C., Trommershäuser, J., & Knill, D. C. (2008). Learning stochastic reward distributions in a speeded pointing task. *The Journal of Neuroscience*, 28, 4356 – 4367.

Schmidt, T. & Seydell, A. (2008). Visual attention amplifies response priming of pointing movements to color targets. *Perception & Psychophysics*, 70, 443 – 455.

Gepshtein, S., Seydell, A. & Trommershäuser, J. (2007). Optimality of human movement under natural variations of visual-motor uncertainty. *Journal of Vision* 7/5/13.

Seydell, A., Knill, D. C., & Trommershäuser, J. (submitted). Adapting Bayesian priors for the integration of visual depth cues.

Seydell, A., Knill, D. C., & Trommershäuser, J. (submitted). Priors and learning in cue integration. In J. Trommershäuser, M. S. Landy, & K. P. Körding (Eds.), *Sensory Cue Integration*. New York, NY, Oxford University Press.

Seydell, A. & Schmidt, T. (under revision). Response priming by illusory contours.

Selected Conference Presentations (* talk)

* Seydell, A., Knill, D. C., & Trommershäuser, J. (2009). Environmental statistics influence integration of visual cues to depth. 9th Annual Meeting of the Vision Sciences Society, Naples, Florida, USA.

* Seydell, A., McCann, B. C., Trommershäuser, J., & Knill, D. C. (2008). Learning to behave optimally in a probabilistic environment. 8th Annual Meeting of the Vision Sciences Society, Naples, Florida, USA.

* Seydell, A., Schmidt, S., & Trommershäuser, J. (2008). Optimal performance in a cognitive probabilistic decision-task. 50th Meeting of Experimentally Working Psychologists (TeaP), Marburg, Germany.

* Seydell, A., McCann, B. C., Trommershäuser, J., & Knill, D. C. (2007). Human pointing movements in a probabilistic environment. 49th Meeting of Experimentally Working Psychologists (TeaP), Trier, Germany.

Schmidt, T., & Seydell, A. (2007). Modulation of feedforward response priming by exogenous and endogenous attention. 7th Göttingen Meeting of the German Neuroscience Society, Göttingen, Germany.

* Schmidt, T., & Seydell, A. (2006). Primes and targets in rapid chases: Response priming as a feedforward process. Herbsttreffen Experimentelle Kognitionspsychologie, Braunschweig, Germany.

* Seydell, A., & Schmidt, T. (2006). Response priming with illusory-contour figures. 48th Meeting of Experimentally Working Psychologists (TeaP), Mainz, Germany.

References

- Prof. Josef P. Rauschecker, PhD., D.Sc. Georgetown University Medical Center
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E-mail: knill@cvs.rochester.edu
- PD Julia Trommershäuser, Ph.D. New York University
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- Prof. Karl R. Gegenfurtner, Ph.D. University of Giessen
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