

## **Ralf Engbert — Short CV**

### **Address**

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### **Current position**

Professor (W3) of “Experimental and Biological Psychology”, Universität Potsdam

### **Scientific expertise**

- Mathematical modeling in cognitive science and computational neuroscience
- Experimental design in vision, attention, and eye-movement research
- Data analysis for behavioral and physiological data, modern statistical techniques
- Applied stochastic processes and nonlinear dynamics in cognitive neuroscience

### **Key publications**

- Engbert, R., Trukenbrod, H. A., Barthelmé, S., & Wichmann, F. A. (2015). Spatial statistics and attentional dynamics in scene viewing. *Journal of Vision* 15(1), 14: 1–17. (doi: 10.1167/15.1.14).
- Engbert, R. (2012). Computational Modeling of Collicular Integration of Perceptual Responses and Attention in Microsaccades. *Journal of Neuroscience*, 32(23), 8035–8039.
- Engbert, R., Mergenthaler, K., Sinn, P., & Pikovsky, A. (2011). An integrated model of fixational eye movements and microsaccades. *Proceedings of the National Academy of Sciences of the United States of America*, 108, E756–E770.
- Engbert, R., & Mergenthaler, K. (2006). Microsaccades are triggered by low retinal image slip. *Proceedings of the National Academy of Sciences of the United States of America*, 103, 7192–7197.
- Engbert, R., Nuthmann, A., Richter, E., & Kliegl, R. (2005). SWIFT: A dynamical model of saccade generation during reading. *Psychological Review*, 112, 777–813.