

02/01/2024

## Curriculum Vitae

***Roland Georg Benoit, Ph.D.***

University of Colorado Boulder

Department of Psychology & Neuroscience

Institute of Cognitive Science

D464B Muenzinger

345 UCB

Boulder, Colorado 80309-0345

e-mail: [roland.benoit@colorado.edu](mailto:roland.benoit@colorado.edu)

twitter: [@rg\\_benoit](https://twitter.com/rg_benoit)

website: <http://www.cbs.mpg.de/independent-research-groups/adaptive-memory>

Google Scholar: <https://scholar.google.com/citations?user=jiN2X6kAAAAJ&hl=en&oi=ao>

---

### Academic Positions

since 2023

Associate Professor

- Dept. of Psychology and Neuroscience & Institute of Cognitive Science, *University of Colorado Boulder*, USA
- Center for Neuroscience, *University of Colorado Boulder*, USA

2016-2023

Max Planck Research Group Leader

- *MPI for Human Cognitive & Brain Sciences*, Germany  
Principal investigator of independent research group

Associated researcher

- *Berlin School of Mind and Brain*, Germany

2016-2023

Faculty member

- *International Max Planck Research School*, Leipzig, Germany

2013-2016

Postdoctoral fellow & Research associate (from 2016)

- Department of Psychology, *Harvard University*, USA  
Prof. Daniel L. Schacter

2009-2013

Postdoctoral fellow

- *MRC Cognition and Brain Sciences Unit*, Cambridge, UK  
Prof. Michael C. Anderson

2001-2003

Student research assistant

- *Saarland University*, Germany  
Prof. Ulman Lindenberger

## Academic Education

- 2023 Doctor Habilitatus
- Leipzig University, Germany
- 2006-11/2010 Doctor of Philosophy (Ph.D.), Cognitive Neuroscience
- Institute of Cognitive Neuroscience, UCL, UK
  - Prof. Paul W. Burgess
- 2000-2006 Diplom (~M.Sc.), Psychology
- Saarland University, Germany
- 2003-2004 Visiting student
- Duke University, USA

## Full list of Publications

### Journal articles

#### Preprints

Meyer, A.-K.<sup>+</sup>, & **Benoit, R. G.** (2023). Suppression-induced forgetting of complex aversive scenes - A replication and meta-analysis. *PsyArXiv*. + = trainee

Preprint DOI: <https://doi.org/10.31234/osf.io/njbc8>

Schultz, H.<sup>+</sup>, Stoffregen, H.<sup>+</sup>, Dabas, A.<sup>+</sup>, Alcobendas, M.<sup>+</sup>, & **Benoit, R.G.** (2023). Concurrent representations of reinstated and transformed memories and their modulation by reward. *bioRxiv*. + = trainee

Preprint DOI: <https://doi.org/10.1101/2023.12.22.573008>

Paulus, P.C.<sup>+</sup>, Charest, I., & **Benoit, R.G.** (2020). Value shapes the structure of schematic representations in the medial prefrontal cortex. *bioRxiv*. + = trainee

Preprint: <https://doi.org/10.1101/2020.08.21.260950>

Analysis script: [https://osf.io/6h58e/?view\\_only=b21fa36180a845e69671f222a110bac8](https://osf.io/6h58e/?view_only=b21fa36180a845e69671f222a110bac8)

Shared data: <https://identifiers.org/neurovault.collection:8129>

#### 2023

Schultz, H., Stoffregen, H., & **Benoit, R.G.** (2023). A reward effect on memory retention, consolidation, and generalization?. *Learn. Mem.* 30: 169-174

Preprint @ *PsyArXiv*: [10.31234/osf.io/89s2k](https://doi.org/10.31234/osf.io/89s2k)

Analysis script & data: <https://osf.io/6vhgr/>

Preregistration: [https://osf.io/35nbs/?view\\_only=acfb2cd5cc1a470596db82b87807be1e](https://osf.io/35nbs/?view_only=acfb2cd5cc1a470596db82b87807be1e)

#### 2022

Meyer, A.-K.<sup>+</sup>, & **Benoit, R.G.** (2022). Suppression weakens unwanted memories via a sustained reduction of neural reactivation. *elife*. + = trainee

Preprint @ *bioRxiv*: <https://doi.org/10.1101/2021.01.16.426815>

Analysis script: [https://osf.io/27dkh/?view\\_only=8ec25028113941f683f31703ab580533](https://osf.io/27dkh/?view_only=8ec25028113941f683f31703ab580533)

Paulus, P.C.<sup>†</sup>, Dabas, A.<sup>†</sup>, Felber, A.<sup>†</sup>, & **Benoit, R.G.** (2022). Simulation-based learning influences real-life attitudes. *Cognition* + = trainee

Preprint @ *PsyArXiv*: [10.31234/osf.io/k8nmx](https://doi.org/10.31234/osf.io/k8nmx)

Data, scripts, & material: [https://osf.io/9yt7s/?view\\_only=c532cb3e669749a9ac503b75a601b643](https://osf.io/9yt7s/?view_only=c532cb3e669749a9ac503b75a601b643)

Rösch, S.A.<sup>†</sup>, Stramaccia, D.F.<sup>†</sup>, & **Benoit, R.G.** (2022) The impact of episodic future thinking on intertemporal choices: A meta-analysis. *Journal of Experimental Psychology: General* + = trainee

Preprint @ *PsyArXiv*: <https://doi.org/10.31234/osf.io/53ju2>

Data and analysis scripts: [https://osf.io/9refj/?view\\_only=fee62b3cadd4405b8aafdac75015f60b](https://osf.io/9refj/?view_only=fee62b3cadd4405b8aafdac75015f60b)

## **2021**

Stramaccia, D.F.<sup>†</sup>, Rischer, K.M.<sup>†</sup>, Fawcett, J.M., & **Benoit, R.G.** (2021). Memory suppression and its deficiency in psychological disorders: A focused meta-analysis. *Journal of Experimental Psychology: General* 150(5), 828-850. [doi.org/10.1037/xge0000971](https://doi.org/10.1037/xge0000971) + = trainee

Postprint @ *PsyArXiv*: <https://doi.org/10.31234/osf.io/5wynm>

Data and analysis scripts: <https://osf.io/f89ur/>

Williams, A.N.<sup>†</sup>, & **Benoit, R.G.** (2021). Imagining our better selves. *Nature Sustainability News & Views*, 1-2. + = trainee

## **2020**

Ashton, S., **Benoit, R. G.**, & Quaedflieg, C. W. (2020). The impairing effect of acute stress on the intentional forgetting of future fears and its moderation by working memory capacity. *Psychoneuroendocrinology*, 104790.

Preprint: <https://doi.org/10.31234/osf.io/2am65>

Botvinik-Nezer, R., ..., **Benoit, R.G.**, Berkers, R.M.W.J.<sup>†</sup>, ..., Poldrack, R.A., & Schonberg, T. (2020). Variability in the analysis of a single neuroimaging dataset by many teams. *Nature*, 1-7. + = trainee

Preprint: <https://doi.org/10.1101/843193>

## **2019**

**Benoit, R.G.**, Paulus, P.C.<sup>†</sup> & Schacter, D.L. (2019). Forming attitudes via neural activity supporting affective episodic simulations. *Nature Communications* 10(1), 2215. + = trainee

Preregistration of replication study: <https://aspredicted.org/9ti3h.pdf>

## **2018**

**Benoit, R.G.**, Berkers, R.M.W.J.<sup>†</sup>, Paulus, P.C.<sup>†</sup> (2018). An adaptive function of mental time travel: Motivating farsighted decisions. *Behavioral and Brain Sciences* 41, e3 + = trainee

Campbell, K.L., Madore, K.P., **Benoit, R.G.**, Thakral, P.T., & Schacter, D.L. (2018), Increased hippocampus to ventromedial prefrontal connectivity during the construction of episodic future events *Hippocampus* 28(2), 76-80.

## **2017**

Schacter, D.L., **Benoit, R.G.**, Szpunar, K.K. (2017). Episodic future thinking: Mechanisms and functions, *Current Opinion in Behavioral Sciences* 17, 41-50.

Thakral, P.T., **Benoit, R.G.**, & Schacter, D.L. (2017). Imagining the future: The core episodic simulation network dissociates as a function of timecourse and the amount of simulated information. *Cortex* 90, 12-30.

Thakral, P.T., **Benoit, R.G.**, & Schacter, D.L. (2017). Characterizing the role of the hippocampus during episodic simulation and encoding *Hippocampus* 27(12), 1275-1284.

Campbell, K.L., **Benoit, R.G.**, & Schacter, D.L. (2017). Priming, not inhibition, of related concepts during future imagining. *Memory* 25(9), 1235-1245.

## **2016**

**Benoit, R.G.**, Davies, D.J. <sup>+</sup>, & Anderson, M.C. (2016). Reducing future fears by suppressing the brain mechanisms underlying episodic simulation. *Proceedings of the National Academy of Sciences of the USA* 113(52), E8492-E8501. <sup>+</sup> = trainee

## **2015**

**Benoit, R.G.**, & Schacter, D.L. (2015). Specifying the core network supporting episodic simulation and episodic memory by activation likelihood estimation. *Neuropsychologia* 75, 450-457.

**Benoit, R.G.**, Hulbert, J.C., Huddelston, E., & Anderson, M.C. (2015). Adaptive top-down suppression of hippocampal activity and the purging of intrusive memories from consciousness. *Journal of Cognitive Neuroscience* 27(1), 96-111.

Szpunar\*, K.K., Jing\*, H.G., **Benoit\***, **R.G.**, & Schacter\*, D.L. (2015). Repetition-related reductions in neural activity during emotional simulations of future events. *PLoS ONE*, 10(9), e0138354.  
\* = equal contributions

Bergström, Z.M., Vogelsang, D.A., **Benoit, R.G.**, & Simons, J.S. (2015). Reflections of oneself: Neurocognitive evidence for dissociable forms of self-referential recollection. *Cerebral Cortex* 25, 2648-2657.

Schacter, D.L., **Benoit, R.G.**, de Brigard, F., & Szpunar, K.K. (2015). Episodic future thinking and episodic counterfactual thinking: Intersections between memory and decisions. *Neurobiology of Learning and Memory* 117, 14-21.

Fawcett, J.M., **Benoit, R.G.**, Gagnepain P., Salman A., Bartholdy S., Bradley C., Chan D.K.-Y., Roche A. Brewin C.R., & Anderson, M.C. (2015). The origins of repetitive thought in rumination: separating cognitive style from deficits in inhibitory control over memory. *Journal of Behavior Therapy and Experimental Psychiatry* 47, 1-8.

## **2014**

**Benoit, R.G.**, Szpunar, K.K., & Schacter, D.L. (2014). Ventromedial prefrontal cortex supports affective future simulation by integrating distributed knowledge. *Proceedings of the National Academy of Sciences of the USA* 111(46), 16550-16555.

Küpper, C.S., **Benoit, R.G.**, Dalgleish, T., & Anderson, M.C. (2014). Direct suppression as a mechanism of controlling unpleasant memories in daily life. *Journal of Experimental Psychology: General* 143(4):1443-1449.

**2012**

**Benoit, R.G.**, & Anderson, M.C. (2012). Opposing mechanisms support the voluntary forgetting of unwanted memories. *Neuron* 76(2), 450-460.

**Benoit, R.G.**, Gilbert, S.J., Frith, C.D., Burgess, P.W. (2012). Rostral prefrontal cortex and the focus of attention in prospective memory. *Cerebral Cortex* 22(8), 1876-1886.

**2011**

**Benoit, R.G.**, Gilbert, S.J., Burgess, P.W. (2011). A neural mechanism mediating the impact of episodic prospection on farsighted decisions. *The Journal of Neuroscience* 31(18), 6771-6779.

**2010**

**Benoit, R.G.**, Gilbert, S.J., Volle, E., Burgess, P.W. (2010). When I think about me and simulate you: Medial rostral prefrontal cortex and self-referential processes. *NeuroImage* 50(3), 1340-1349.

Volle, E., Gilbert, S.J., **Benoit, R.G.**, Burgess, P.W. (2010). Specialization of the rostral prefrontal cortex for distinct analogy processes. *Cerebral Cortex* 20(11), 2647-2659.

Gilbert, S.J., Gonen-Yaacovi, G., **Benoit, R.G.**, Volle, E., & Burgess, P.W. (2010). Distinct functional connectivity associated with lateral versus medial rostral prefrontal cortex: A meta-analysis. *NeuroImage* 53(4), 1359-1367.

**2009**

**Benoit, R.G.**, Werkle-Bergner, M, Mecklinger, A., Kray, J. (2009). Adapting to changing memory retrieval demands: Evidence from event-related potentials. *Brain and Cognition* 70(1), 123-135.

Burgess, P.W., Alderman, N., Volle, E., **Benoit, R.G.**, Gilbert, S.J. (2009). Mesulam's frontal lobe mystery re-examined. *Restorative Neurology and Neuroscience* 27(5), 439-506.

**2008**

**Benoit, R.G.** (2008). The role of rostral prefrontal cortex in establishing cognitive sets: Preparation or coordination? *The Journal of Neuroscience* 28(13), 3259-3261.