

## Biographical Sketch

### Kriegeskorte, Nikolaus

Professor of Psychology

Director of Cognitive Imaging in the Mortimer B. Zuckerman Mind Brain Behavior Institute

Jerome L. Greene Science Center

3227 Broadway, L3-064

Mail Code: 9834

United States

nk2765@columbia.edu

+1 212 854 3608

### (a) Professional Preparation

Universität zu Köln	Germany	Psychology	M.A., 1999
Universiteit Maastricht	Netherlands	Cognitive Neuroscience	Ph.D., 2000-4
University of Minnesota	Minneapolis, MN	Neuroimaging	Post-doc, 2003
National Institute of Mental Health	Bethesda, MD	Neurophysiology	Post-doc, 2004-9

### (b) Appointments

2017-	Professor, Department of Psychology, Affiliated member of Electrical Engineering, Columbia University
	Director of Cognitive Imaging, Zuckerman Mind Brain Behavior Institute
2015-17	Programme Leader, Medical Research Council Cognition and Brain Sciences Unit at the University of Cambridge, Cambridge, UK
2009-15	Programme-Leader-Track PI, Medical Research Council Cognition and Brain Sciences Unit, Cambridge, UK
2004-09	Visiting Postdoctoral Fellow, National Institute of Mental Health, Bethesda, MD
2003	Postdoctoral Fellow, University of Minnesota, Minneapolis, MN
2000-03	PhD Student, Universiteit Maastricht, Netherlands
1999-00	PhD Student, Max Planck Institute for Brain Research, Frankfurt, Germany
1996	Research Asst. Max Planck Institute for Psychological Research, Munich, Germany

### (c) Publications

(i) List up to five (5) products most closely related to the proposed project

**Cognitive computational neuroscience.** Kriegeskorte N, Douglas PK (2018). *Nature neuroscience*, 1.

**Deep neural networks: A new framework for modeling biological vision and brain information processing.** Kriegeskorte N (2015) *Annual Rev Vis Sci*. 2015. 1:417-46.

**Deep Supervised, but Not Unsupervised, Models May Explain IT Cortical Representation.** haligh-Razavi SM, Kriegeskorte N (2014) *PLoS Comput Biol* 10 (11), e1003915.

**Recurrent Convolutional Neural Networks: A Better Model of Biological Object Recognition.** Spoerer CJ, McClure P, Kriegeskorte N (2017) *Frontiers*.

(ii) List up to five (5) other significant products, whether or not related to the proposed project.

**Individual faces elicit distinct response patterns in human anterior temporal cortex.** Kriegeskorte N, Formisano E, Sorger B, Goebel R. (2007). *Proc Natl Acad Sci USA* 104(51):20600-5.

**Matching categorical object representations in inferior temporal cortex of man and monkey.** Kriegeskorte N, Mur M, Ruff DA, Kiani R, Bodurka J, Esteky H, Tanaka K, Bandettini PA (2008) *Neuron* 60(6):1126-41.

**Representational models: A common framework for understanding encoding, pattern-component, and representational-similarity analysis.** Diedrichsen J, Kriegeskorte N (2017) *PLoS Comput Biol* 13(4):e1005508.

**Information-based functional brain mapping.** Kriegeskorte N, Goebel R, Bandettini P (2006) *Proc Natl Acad Sci USA*, 103(10), 3863-3868.

**Circular analysis in systems neuroscience: the dangers of double dipping.** Kriegeskorte N, Simmons WK, Bellgowan PS, Baker CI (2009) *Nature Neuroscience*, 12(5), 535.

**(d) Synergistic Activities**

<p><b>Cognitive computational neuroscience (CCN)</b></p>	<ul style="list-style-type: none"> <li>• Conference Co-founder, with Danielle Bassett, Allie Fletcher, Birte Forstmann, Kendrick Kay, Konrad Koering, Thomas Naselaris, Hendrikje Nienborg, and Russ Poldrack of new conference whose inaugural meeting will take place 6-8 September 2017.</li> <li>• Steering Committee (2016-2018)</li> <li>• Program Chair (2018)</li> </ul>
<p><b>Organization for Human Brain Mapping (OHBM)</b></p>	<ul style="list-style-type: none"> <li>• Chair 2017 of OHBM Communications Committee</li> <li>• Member of Committee on Best Practice in Data Analysis and Sharing</li> <li>• Program Committee Member</li> <li>• Education Chair (2015)</li> <li>• Council Member (until June 2016)</li> </ul>