Samuel A. Nastase

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Education

PhD—Cognitive Neuroscience Dartmouth College, Hanover, NH

Expected August, 2017

Advisor: James V. Haxby

MSc—Cognitive Neuroscience University of Trento, Trento, Italy

July, 2012

Advisor: Uri Hasson

BA—Cognitive Science, Philosophy Johns Hopkins University, Baltimore, MD May, 2010

Advisor: Michael McCloskey

Employment

Student Intern—Medical Imaging Technologies Siemens Healthcare, Princeton, NJ

June-August, 2016

Advisor: Francisco Pereira

Publications

Nastase, S. A., Davis, B., Halchenko, Y. O., Hasson, U. (2016). *Cross-modal searchlight classification: methodological challenges and recommended solutions*. Paper presented at the 2016 IEEE International Workshop on Pattern Recognition in Neuroimaging (PRNI).

- Connolly, A. C., Sha, L., Guntupalli, J. S., Oosterhof, N. N., Halchenko, Y. O., **Nastase, S. A.**, Visconti di Oleggio Castello, M., Abdi, H., Jobst, B. C., Gobbini, M. I., & Haxby, J. V. (in press). How the human brain represents perceived dangerousness or "predacity" of animals. *Journal of Neuroscience*.
- **Nastase, S. A.**, lacovella, V., Davis, B., & Hasson, U. (2015). Connectivity in the human brain dissociates entropy and complexity of auditory inputs. *NeuroImage*, *108*, 292-300.
- **Nastase, S. A.**, lacovella, V., & Hasson, U. (2014). Uncertainty in visual and auditory series is coded by modality-general and modality-specific neural systems. *Human Brain Mapping*, 35(4), 1111-1128.

Manuscripts in preparation

- Nastase, S. A., Connolly, A. C., Oosterhof, N. N., Halchenko, Y. O., Guntupalli, J. S., Visconti di Oleggio Castello, M., Gors, J., Gobbini, M. I., Haxby, J. V. (2016). Attention selectively reshapes the geometry of distributed semantic representation. *bioRxiv preprint*. Manuscript submitted for publication.
- **Nastase, S. A.**, & Haxby, J. V. (2016). Structural basis of semantic memory. In J. H. Byrne (Ed.), *Learning and Memory: A Comprehensive Reference*. Cambridge, MA: Academic Press.

Presentations and posters

- Nastase, S. A. & Haxby, J. V. (2016, November). Constructing a representational atlas for human cerebral cortex. Invited keynote talk at the Neurocog 2016 workshop at Katholieke Universiteit Leuven, Leuven, Belgium.
- **Nastase, S. A.**, Guntupalli, J. S., Haxby, J. V., Halchenko, Y. O. (2016, November). *Localizing functional regions of interest based on responses to dynamic naturalistic stimuli*. Poster presented at the annual meeting of the Society for Neuroscience, New York, NY.
- Nastase, S. A., Green, A. E., Cross, E. S., Lee, Y.-S., Halchenko, Y. O., Haxby, J. V., Kraemer, D. J. M. (2016, April). *Decoding contributions of prefrontal and sensory-specific cortices to the retrieval of perceptual knowledge*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Nastase, S. A., Visconti di Oleggio Castello, M., Halchenko, Y. O., Connolly, A. C., Oosterhof, N. N., Gobbini, M. I., & Haxby, J. V. (2015, October). *Attention alters animal and action representation in highly-distributed, functionally-defined cortical parcels*. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Visconti di Oleggio Castello, M., **Nastase, S. A.**, Gobbini, M. I., Haxby, J. V., & Halchenko, Y. O. (2015, October). *Finding cortical patches of shared representations: A comparison of clustering algorithms on representational geometries, and the effect of cross-validation to reduce physiological noise*. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Nastase, S. A., Connolly, A. C., Oosterhof, N. N., Halchenko, Y. O., Visconti di Oleggio Castello, M., Gors, J., Gobbini, M. I., & Haxby, J. V. (2015, October). *Attention selectively reshapes the geometry of distributed semantic representation*. Oral presentation at the annual retreat of the Center for Cognitive Neuroscience, Dartmouth College, Hanover, NH.
- Nastase, S. A., Visconti di Oleggio Castello, M., Haxby, J. V., Gobbini, M. I., & Halchenko, Y. O. (2015, June). *Clustering cortical searchlights based on shared representational geometry.* Oral presentation at the annual meeting of the Organization for Human Brain Mapping, Honolulu, HI.
- **Nastase, S. A.** (2015, June). *Multivariate pattern analysis for neuroscience*. Invited lecture at the Dartmouth-Hitchcock Medical Center, Lebanon, NH.
- Nastase, S. A., Connolly, A. C., Oosterhof, N. N., Halchenko, Y. O., Gors, J., Gobbini, M. I., & Haxby, J. V. (2014, August). *Attention reshapes distributed population codes for animal and action representation*. Poster presented at the Center for Cognitive Neuroscience Workshop on Decoding Population Responses, Dartmouth College, Hanover, NH.
- Nastase, S. A., Connolly, A. C., Oosterhof, N. N., Halchenko, Y. O., Gors, J., Gobbini, M. I., & Haxby, J. V. (2014, June). *Attention locally modulates the discriminability of high-level, task-relevant representations*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Hamburg, Germany.

- **Nastase, S. A.**, Connolly, A. C., Oosterhof, N. N., Halchenko, Y. O., Gors, J., Gobbini, M. I., & Haxby, J. V. (2014, May). *Attentional allocation locally warps representational space*. Poster presented at the annual meeting of the Vision Sciences Society, St. Pete Beach, FL.
- **Nastase, S. A.** (2014, April). *Design considerations for fMRI studies using multivariate pattern analysis.* Oral presentation at the fMRI Brown Bag symposium series at Dartmouth College, Hanover, NH.
- **Nastase, S. A.** (2014, April). *Task-dependent warping in high-dimensional neural representational space*. Oral presentation at the Social Brain Sciences symposium series, Dartmouth College, Hanover, NH.
- Nastase, S. A., lacovella, V., & Hasson, U. (2012, April). Statistical constraints in the auditory domain impact whole-brain connectivity patterns of the anterior cingulate and hippocampus. Poster presented at the annual meeting of the Cognitive Neuroscience Society, Chicago, IL.
- Nastase, S. A., lacovella, V., & Hasson, U. (2012, February). Do structured inputs result in structured activity? The impact of temporal structure in the auditory domain on functional connectivity patterns. Poster presented at the first international workshop on Segregation and Integration in Music and Language, Tübingen, Germany.
- **Nastase, S. A.**, lacovella, V., & Hasson, U. (2011, April). *Modality-general and modality-specific systems coding for input order*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Nastase, S. A., lacovella, V., & Hasson, U. (2010, November). Does the coding of order depend on language systems? Poster presented at the annual Neurobiology of Language Conference, San Diego, CA.

Teaching experience

Teaching assistant – Systems Neuroscience with Lab

Fall, 2015

Dartmouth College

Instructors: Jeffrey Taube, Matthijs van der Meer

Teaching assistant – Brain Mapping with fMRI

Winter, 2015

Dartmouth College

Instructor: Won Mok Shim

Teaching assistant - Lab in Psychological Science

Spring, 2014

Dartmouth College

Instructor: Jonathan Freeman

Teaching assistant – Introduction to Neuroscience

Fall, 2013

Dartmouth College

Instructor: Catherine Cramer Guest lectures: Vision, Attention

Teaching fellow – Art, Mind & Brain Harvard University	Summer, 20
Instructors: David Melcher, Francesca Bacci	
Teaching fellow – Windows into the Structure of Mind & Brain Harvard University	Summer, 2011–20
Instructors: Alfonso Caramazza, John Assad	
Teaching fellow – Cutting Edge Neuroscience in Film & Television Harvard University Instructor: George Alvarez	Summer, 20
Teaching fellow - Hormones, Brain & Behavior Harvard University Instructor: Marc Tetel	Summer, 20
Honors and awards	
Merit Abstract Award Organization for Human Brain Mapping, Chicago, USA	May, 20
Neukom Travel Grant The William H. Neukom Institute for Computational Science	May, 20
Marie A. Center 1982 Graduate Award for Excellence in Teaching Department of Psychological & Brain Sciences, Dartmouth College	g June, 20
Conference Travel Grant Graduate Student Council, Dartmouth College	April, 20
Graduate Travel Award Dartmouth Graduate Studies, Dartmouth College	April, 20
Trainee Abstract Travel Award Organization for Human Brain Mapping, Hamburg, Germany	March, 20
Merit Award 2012 Psychology & Cognitive Sciences Department, University of Trento	December, 20
Honors Psychology & Cognitive Sciences Department, University of Trento	July, 20
Departmental Honors Cognitive Science Department, Johns Hopkins University	May, 2
General Honors Krieger School of Arts & Sciences, Johns Hopkins University	May, 20

Dean's List 2006–2010

Krieger School of Arts & Sciences, Johns Hopkins University

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Volunteer reviewer:	
Social Cognitive and Affective Neuroscience	May, 2016-present
Journal of the International Neuropsychological Society	April, 2016-present
Frontiers in Neuroscience	March, 2016-present
Neurolmage	March, 2014-present

Society memberships:

Society for Neuroscience	2015-present
Organization for Human Brain Mapping	2014-present
Vision Sciences Society	2014-present
Cognitive Neuroscience Society	2011-present

Leadership and involvement

ReproNim: Center for Reproducible Neuroimaging Computation	November, 2016-present
Contributor	

http://reproducibleimaging.org

DataLad: Git-based data-sharing interface November, 2016–present

Contributor and exhibitor

http://datalad.org

Center for Cognitive Neuroscience Workshop on Predictive Coding August, 2016

Organizing committee member

Dartmouth College

Center for Open Neuroscience Fall, 2015–present

Contributor

http://centerforopenneuroscience.org

NeuroDebian November, 2014–present

Contributor and exhibitor

http://neuro.debian.net

AFNI Boot Camp at Dartmouth Fall, 2014

Primary organizer
Dartmouth College

Professional Ethics Program Fall, 2014

Ethics trainer
Dartmouth College

GWISE Science Day for local middle schools April, 2014

Station leader
Dartmouth College

Cognitive Brown Bag symposium series September, 2014-present **Primary organizer** Dartmouth College September, 2013-present fMRI Brown Bag symposium series **Primary organizer** Dartmouth College Departmental Social September, 2013-present **Primary organizer** Dartmouth College Harvard Summer Program in Trento, Italy Summer, 2013 **Resident advisor** Harvard University Johns Hopkins Residential Life 2008-2010 **Resident advisor**

Johns Hopkins University