

CATERINA MAGRI

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Education & Professional Experience

Postdoctoral Fellow, Cognitive Science Department
Johns Hopkins University, January 2020 - present
Advisor: Michael Bonner

Ph.D. in Psychology
Harvard University, November 2019
Advisor: Talia Konkle

M.A. in Psychology
Harvard University, Fall 2016
Advisor: Alfonso Caramazza

M.S. in Cognitive Neuroscience
University of Trento/CIMeC, July 2013
Advisor: Angelika Lingnau

B.A. in Cognitive Psychology
University of Trento, July 2011
Advisor: Giorgio Vallortigara

Publications

- Magri C.**, Konkle T., Caramazza A. (2021). The contribution of size, manipulability, and stability on neural responses to inanimate objects. *NeuroImage*.
- Magri C.**, Fabbri S., Caramazza A., Lingnau A. (2019). Directional tuning for eye and arm movements in overlapping regions in human parietal cortex. *NeuroImage*.

Working Papers

- Magri C.**, Konkle T. (in prep). Object-selective cortex shows distinct representational formats along the posterior-to-anterior axis: evidence from brain-behavior correlations.

Peer-Reviewed Conference Proceedings

- Magri C.**, Konkle T. (2019). Comparing facets of behavioral object representation: perceptual similarities match brain and models. *Proceedings of the 2019 Conference on Computational Cognitive Neuroscience*.
- Magri C.**, Maranatan A., Mahadevan L., Konkle T. (2018). A mathematical model of real-world object shape predicts human perceptual judgments. *Proceedings of the 2018 Conference on Computational Cognitive Neuroscience*.

Conference Presentations

- Magri C.**, Bonner M. (2021). The unreasonable effectiveness of context: Object representations are well predicted by computational models of their natural scene contexts. Talk to be presented at virtual Vision Science Society, May 21-26.

- Nandiwada N., **Magri C.**, Bonner M. (2021). The stuff of natural scenes: probing human property judgments of textures, materials, and other amorphous scene components with convolutional neural networks. Poster to be presented at virtual Vision Sciences Society, May 21-26.
- Han K., **Magri C.**, Bonner M. (2021). Quantifying the latent semantic content of visual representations. Poster to be presented at virtual Vision Sciences Society, May 21-26.
- Magri C.**, Konkle T. (2020). Object-selective cortex shows distinct representational formats along the posterior-to-anterior axis: evidence from brain-behavior correlations. *Journal of Vision* 20 (11), 185-185.
- Magri C.**, Long B., Chiou R., Konkle T. (2019). Behavioral and neural associations between object size and curvature. Poster presented at the Vision Science Society conference, September 17-22, St. Pete Beach, Florida.
- Magri C.**, Maranatan A., Mahadevan L., Konkle T. (2018). Predicting object shape and curvature judgments with a new parameterization of shape. Poster presented at the Vision Science Society conference, May 18-23, St. Pete Beach, Florida.
- Magri C.**, Konkle T., Caramazza A. (2016). Visual object responses of the ventral stream reflect both size and motor-relevance. Poster presented at the Vision Sciences Society conference, May 13-18, St. Pete Beach, Florida.
- Magri C.**, Fabbri S., Caramazza A., Lingnau A. (2013). Common regions for eye- and hand-movement direction in the parietal lobe. Poster presented at Concepts, Actions, and Objects (CAOs) conference, May 23-26, Rovereto (TN), Italy.

Reviewer

Computational Cognitive Neuroscience 2018 Conference
 Computational Cognitive Neuroscience 2019 Conference

Fellowships, Honors and Awards

- SISSA/Unitn Fellowship Award - 2011
- Master Thesis Merit Award, University of Trento, €1,875 (2013)
- Certificate for Distinction in Teaching (2018 Spring); Derek Bok Center, Harvard University
- vVSS 2021 Travel Award

Invited Talks

Exploring Object representation with behavioral judgments and DNNs (Oct 2018)
Cognition Seminar, Department of Cognitive, Linguistic & Psychological Sciences, Brown University

A mathematical model of real-world object shape predicts human perceptual judgments (July 2018)
Kanwisher lab, Department of Brain and Cognitive Sciences, MIT

The way we see things: insights into the representation of objects in brain and behavior (February 2021)
Firestone lab, Department of Psychological and Brain Sciences, Johns Hopkins University

The way we see things: insights into the representation of objects in brain and behavior (March 2021)
Poggio lab, Department of Brain and Cognitive Sciences, MIT

Mentorship

2019 - undergraduate students: Ajay Ananthakrishnan
 2020 - undergraduate students: Ajay Ananthakrishnan, Neha Nandiwada
 2021 - undergraduate students: Neha Nandiwada, Jiayu Shao

Teaching Assistanship

Psychological Science (2015 Fall, 2016 Fall; Instructor: Daniel Gilbert)

Psychological Science (2016 Spring; Instructor: Steven Pinker)

Evolving Morality (2017 Spring, 2018 Spring; Instructor: Joshua Greene)

Abnormal Psychology (2017 Fall; Instructor: Joshua Buckholz)