Alon Hafri

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RESEARCH AREAS

Language and Thought, Psycholinguistics, Visual Perception, Cognitive Neuroscience

ACADEMIC APPOINTMENTS

August 2022	Assistant Professor, Department of Linguistics & Cognitive Science University of Delaware
2021–2022	NSF Social, Behavioral, and Economic Sciences (SBE) Postdoctoral Research Fellow Johns Hopkins University
2019–2022	Postdoctoral Research Fellow, Department of Psychological & Brain Sciences, Department of Cognitive Science Mentors: Chaz Firestone, Michael F. Bonner, and Barbara Landau Johns Hopkins University

EDUCATION

2019	 Ph.D., Psychology, University of Pennsylvania Mentors: John Trueswell, Russell Epstein Additional Committee Members: Nicole Rust (chair), Konrad Kording Dissertation: Event structure in vision and language Certificates: IGERT Traineeship in Complex Scene Perception (PIs: David Brainard, Kostas Daniilidis) Teaching Certificate (Center for Teaching and Learning)
2015	M.A., Psychology, University of Pennsylvania
2007	B.A., Music, Wesleyan University

OTHER RESEARCH POSITIONS

Research Assistant, Department of Psychology
Russell Epstein's Lab
University of Pennsylvania
Lab Manager, Department of Psychology John Trueswell's Language Processing & Development Lab University of Pennsylvania
Research Assistant (Volunteer), Department of Psychology Kathy Hirsh-Pasek's Infant & Child Lab Temple University

GRANTS & FELLOWSHIPS

2021–2023	NSF Social, Behavioral, and Economic Sciences (SBE) Postdoctoral	\$138,000
	Research Fellowship	
	Title: Neural mechanisms of relational perception	
	Co-PIs: Michael F. Bonner, Chaz Firestone, and Barbara Landau	
2016–2019	NSF Graduate Research Fellowship	
2015–2016	NIH T32 Institutional Predoctoral Research Training Grant in Vision Research	h
	PI: Diego Contreras	
2015	National Defense Science & Engineering Graduate Fellowship [declined the av	ward]

AWARDS

2019	NEI Postdoctoral Travel Award for Vision Sciences Society Meeting
2015	Graduate Student Travel Award for Vision Sciences Society Meeting

PUBLICATIONS

Preprints

- 1. **Hafri, A.,** Landau, B., Bonner, M.F., & Firestone, C. (under review). A phone in a basket looks like a knife in a cup: The perception of abstract relations. *PsyArXiv*.
- 2. De Freitas, J.*, Hafri, A.*, Alvarez, G.A. (under review). Moral thin-slicing. * co-first authors

Journal Articles

3. **Hafri, A.,** Gleitman, L.R., Landau, B., & Trueswell., J.C. (in press). When word and world meet: Language and vision share an abstract representation of symmetry. *Journal of Experimental Psychology: General.*

- 4. Lin, F., **Hafri, A.,** & Bonner, M.F. (in press). Scene memories are biased toward high-probability views. *Journal of Experimental Psychology: Human Perception & Performance.*
- 5. **Hafri, A.,** Wadhwa, S., Bonner, M.F. (in press). Perceived distance alters memory for scene boundaries. *Psychological Science*.
- 6. **Hafri, A.*,** Boger, T.*, & Firestone, C. (in press). Melting ice with your mind: Representational momentum for physical states. *Psychological Science.* * co-first authors
- 7. **Hafri, A.,** & Firestone, C. (2021). The perception of relations. *Trends in Cognitive Sciences*, 25(6), 475–492.
 - * This paper was featured on the cover for the corresponding issue.
- 8. Caplan, S., **Hafri, A.,** Trueswell, J.C. (2021). Now you hear me, later you don't: The immediacy of linguistic computation and the representation of speech. *Psychological Science*, *32*(3), 410–423.
- 9. **Hafri, A.**, Trueswell, J.C., & Strickland, B. (2018). Encoding of event roles from visual scenes is rapid, spontaneous, and interacts with higher-level visual processing. *Cognition*, 175, 336–352.
- 10. **Hafri, A.**, Trueswell, J.C., & Epstein, R.A. (2017). Neural representations of observed actions generalize across static and dynamic visual input. *The Journal of Neuroscience*, *37*(11), 3056–3071.
- Hafri., A., Papafragou, A., & Trueswell, J.C. (2013). Getting the gist of events: Recognition of two-participant actions from brief displays. *Journal of Experimental Psychology: General*, 142(3), 880– 905.
- 12. Trueswell, J.C., Medina, T.N., **Hafri, A.**, & Gleitman, L.R. (2013). Propose but verify: Fast mapping meets cross-situational word learning. *Cognitive Psychology*, 66(1), 126–156.

Refereed Conference Proceedings

- 13. **Hafri, A.,** Gleitman, L.R., Landau, B., & Trueswell., J.C. (2021). When word and world meet: Intuitive correspondence between visual and linguistic symmetry. In *Proceedings of the 43rd Annual Conference of the Cognitive Science Society*. Vienna, Austria.
- 14. Caplan, S., **Hafri, A.,** Trueswell, J.C. (2019). Speech processing does not involve acoustic maintenance. In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Montreal, Canada.

15. Wehry, J., **Hafri, A.,** Trueswell, J.C. (2019). The end's in plain sight: Implicit association of visual and conceptual boundedness. In *Proceedings of the 41st Annual Conference of the Cognitive Science Society*. Montreal, Canada.

- 16. **Hafri, A.**, Trueswell, J. C., & Strickland, B. (2016). Extraction of event roles from visual scenes is rapid, automatic, and interacts with higher-level visual processing. In *Proceedings of the 38th Annual Conference of the Cognitive Science Society*. Philadelphia, PA.
- 17. Trueswell, J.C., Kaufman, D., **Hafri, A.**, & Lidz, J. (2012). Development of parsing abilities interacts with grammar learning: Evidence from Tagalog and Kannada. In *Proceedings of the 36th Annual Boston University Conference on Language Development*. Somerville, MA: Cascadilla Press.

WORKS IN PROGRESS

- 1. Guan, C.*, Schwitzgebel, D.*, Firestone, C., & **Hafri, A.** Visual number estimation is sensitive to the combinability of object-parts. * co-first authors
- 2. **Hafri, A.,** Bonner, M.F., Trueswell, J.C., & Epstein, R.A. A model of semantic structure predicts cortical responses to verbs in naturalistic language.

INVITED COLLOQUIA AND WORKSHOPS

2022 September	University of Pennsylvania	Integrated Language Science & Technology (ILST) Seminar
2022 September	Kanazawa, Japan	Joint Conference on Language Evolution: Event role biases in language and cognition
2022 April	University of Nevada, Reno	Early Career Colloquium
2021 August	Tel Aviv University	Mudrik Lab (PI: Liad Mudrik)
2021 May	University of Maryland	Linguistics Department
2021 April	UCSD	Language Comprehension Lah (PI: Eva Wittenberg)
2021 March	Harvard University	Cognitive Neuropsychology Lab (PI: Alfonso Caramazza)
2021 March	Sorbonne University	LaPsyDÉ
2021 February	University of Florida	PAC/SCANN Labs (PIs: Brian Odegaard, Steven Weisberg)
2018 February	Johns Hopkins University	Vision Science Seminar

INVITED CONFERENCE TALKS, WORKSHOPS, & SYMPOSIA

2022 September Event role biases in language and cognition, Workshop, *Joint Conference on Language Evolution*, Kanazawa, Japan & Online.

2022 May

Beyond objects and features: High-level relations in visual perception, Symposium, 22nd Annual Meeting of the Vision Sciences Society.

* Organized and chaired symposium (with C. Firestone)

Real versus imagined in visual memory (with C. Firestone), Symposium, 24th Meeting of the Association for the Scientific Study of Consciousness (ASSC).

Extraction of morally relevant information from visual scenes, Morality, Language, and Thought Workshop, Institut Jean Nicod, Paris, France (organizers: Laura Niemi and

CONTRIBUTED CONFERENCE PRESENTATIONS

Brent Strickland).

2022 May	Sequential construction of visual relations (with C. Firestone). Poster presentation, 22 nd Annual Meeting of the <i>Vision Sciences Society (VSS)</i> .
2021 November	Where word and world meet: Intuitive correspondence between visual and linguistic symmetry (with L.R. Gleitman, B. Landau, & J.C. Trueswell). Poster presentation, 62 nd Annual Meeting of the <i>Psychonomic Society</i> .
2021 July	When word and world meet: Intuitive correspondence between visual and linguistic symmetry (with L.R. Gleitman, B. Landau, & J.C. Trueswell). Oral presentation, 43 rd Annual Conference of the <i>Cognitive Science Society</i> .
2021 May	Melting ice with your mind: Representational momentum in state-space (with T. Boger [co-presenter] & C. Firestone). Oral presentation, 21st Annual Meeting of the <i>Vision Sciences Society</i> .
2021 May	"Honey, I shrunk the scene": Changing perceived distance alters memory for scene boundaries (with S. Wadhwa [co-presenter] & M.F. Bonner). Oral presentation, 21st Annual Meeting of the <i>Vision Sciences Society</i> .
2021 May	When word and world meet: Intuitive correspondence between visual and linguistic symmetry (with L.R. Gleitman, B. Landau, & J.C. Trueswell). Oral presentation, 12 th Annual <i>Dubrovnik Conference on Cognitive Science</i> .
2020 November	Melting ice with your mind: Representational momentum in state-space (with T. Boger [co-presenter] & C. Firestone). Oral presentation, 28th Annual Object Perception, visual Attention, and visual Memory (OPAM) Conference.
2020 November	"Honey, I shrunk the scene": Perceived spatial scale alters memory for scene boundaries (with S. Wadhwa [presenter] & M.F. Bonner). Poster presentation, 28th Annual Object Perception, visual Attention, and visual Memory (OPAM) Conference.
2020 May	Visual predictions from physical relations (with M.F. Bonner & C. Firestone). Poster presentation, 20^{th} Annual Meeting of the <i>Vision Sciences Society</i> .

2020 May	Possible objects count: Perceived numerosity is altered by representations of possibility (with C. Guan [presenter], D. Schwitzgebel, & C. Firestone). Poster presentation, 20th Annual Meeting of the <i>Vision Sciences Society</i> .
2019 July	Speech processing does not involve acoustic maintenance (with S. Caplan [presenter] & J.C. Trueswell). Oral presentation, 41st Annual Conference of the <i>Cognitive Science Society</i> , Montreal, Canada.
2019 July	The end's in plain sight: Implicit association of visual and conceptual boundedness (with J. Wehry [presenter] & J.C. Trueswell). Oral presentation, 41st Annual Conference of the <i>Cognitive Science Society</i> , Montreal, Canada.
2019 May	When a phone in a basket looks like a knife in a cup: Perception and abstraction of visual-spatial relations between objects (with B. Landau, M.F. Bonner, & C. Firestone). Poster presentation, 19th Annual Meeting of the <i>Vision Sciences Society</i> , St. Pete Beach, Florida.
2018 November	Brains on books: Event-structure semantics predict cortical responses to naturalistic language (with M.F. Bonner, J.C. Trueswell, & R.A. Epstein). Poster presentation, Annual Meeting of the <i>Society for Neuroscience (SfN)</i> , San Diego, California.
2018 May	From pixels to moral judgment: Extracting morally relevant information in minds and machines (with J. De Freitas [co-presenter], D.L.K. Yamins, & G.A. Alvarez). Poster presentation, 18th Annual Meeting of the <i>Vision Sciences Society</i> , St. Pete Beach, Florida.
2017 November	Rapid and spontaneous encoding of event structure from visual scenes: Implications for language acquisition (with J.C. Trueswell [presenter], B. Strickland, & A. Papafragou). Oral presentation, 42 nd Annual <i>Boston University Conference on Language Development (BUCLD)</i> , Boston, Massachusetts.
2017 May	Extraction of event roles from visual scenes is rapid, automatic, and interacts with higher-level visual processing (with J.C. Trueswell & B. Strickland). Oral presentation, 17th Annual Meeting of the <i>Vision Sciences Society</i> , St. Pete Beach, Florida.
2017 May	Neural representations of observed actions generalize across static and dynamic visual input (with J.C. Trueswell & R.A. Epstein). Poster presentation, Rovereto Workshop on Concepts, Actions, Objects (CAOs), Rovereto, Italy.
2016 July	Extraction of event roles from visual scenes is rapid, automatic, and interacts with higher-level visual processing (with J.C. Trueswell & B. Strickland). Oral presentation, 38th Annual Conference of the <i>Cognitive Science Society</i> , Philadelphia, Pennsylvania.
2016 May	Format-independent cortical representations of interactive events (with J.C. Trueswell & R.A. Epstein). Poster presentation, 16 th Annual Meeting of the <i>Vision Sciences Society</i> , St. Pete Beach, Florida.

Neural representations of human interactions (with J.C. Trueswell & R.A. Epstein). 2015 May Poster presentation, 15th Annual Meeting of the Vision Sciences Society, St. Pete Beach, Florida. 2014 November Neural representations of human interactions (with J.C. Trueswell & R.A. Epstein). Poster presentation, Annual Meeting of the Society for Neuroscience (SfN), Washington, D.C. 2012 November Propose but verify: Fast mapping meets cross-situational word learning (with J.C. Trueswell [presenter], T.N. Medina, & L.R. Gleitman). Oral presentation, *Psychonomic* Society Annual Meeting, Minneapolis, Minnesota. 2012 November Getting the gist of events: Recognition of two-participant actions from brief displays (with J.C. Trueswell & A. Papafragou). Poster presentation, Psychonomic Society Annual Meeting, Minneapolis, Minnesota. 2011 November Development of parsing abilities interacts with grammar learning: Evidence from Tagalog and Kannada (with J.C. Trueswell [presenter], D. Kaufman, & J. Lidz). Oral presentation, 36th Annual Boston University Conference on Language Development (BUCLD), Boston, Massachusetts. 2011 March The gist of events: Implications for language production and scene description (with J.C. Trueswell & A. Papafragou). Poster presentation, 24th Annual CUNY Conference on Human Sentence Processing, Stanford, CA. 2010 November Propose but verify: Fast mapping meets cross-situational word learning. Poster presentation (with T.N. Medina [co-presenter], J.C. Trueswell, & L.R. Gleitman). 35th Annual Boston University Conference on Language Development (BUCLD), Boston, Massachusetts. 2009 April How do preschoolers express cause in gesture and speech? (with T. Göksun [presenter], K. Hirsh-Pasek, R.M Golinkoff, W.L. Shallcross, & Y. Misitzis). Poster presentation, Society for Research on Child Development (SRCD), Denver, Colorado.

MENTORING

2021-present	Christiana Liu (undergraduate, Johns Hopkins)
	Independent research, Cognitive Science (co-mentored with B. Landau)
2020–2021	Tal Boger (undergraduate, Johns Hopkins [visiting from Yale University])
	Independent research, Psychology (co-mentored with C. Firestone)
	Resulted in a high-impact co-first-authored publication in Psychological Science
	Co-delivered conference talks (OPAM 2020, VSS 2021)

2019–2022 Shreya Wadhwa (undergraduate, Johns Hopkins)

Independent research, Cognitive Science (co-mentored with M.F. Bonner) Resulted in co-authorship on a manuscript invited for revision in *Psychological*

Science

Co-delivered conference talk (VSS 2021)

2019–2020 David Schwitzgebel (undergraduate, Johns Hopkins [visiting from Vassar College])

Vision Sciences summer internship (co-mentored with C. Guan & C. Firestone)

Resulted in a poster presentation (VSS 2020)

Started a PhD program (2021) at the Institut Jean Nicod (PI: Brent Strickland)

2017–2018 Jon Wehry (undergraduate, University of Pennsylvania)

Psychology honors thesis (co-mentored with J.C. Trueswell)

Resulted in a refereed conference submission and conference talk (CogSci 2019)

TEACHING

University of Delaware (Instructor)

2022 Fall Studies in Linguistics: The Vision-Language Interface (advanced graduate seminar)

Johns Hopkins University (Instructor)

2022 January The Richness of Perception (enrollment: 19 [virtual])

* Including full curriculum development

University of Pennsylvania (Instructor)

2016 Fall Introduction to Matlab
 2016 Spring Introduction to Matlab
 2015 Fall Introduction to Matlab

University of Pennsylvania (Teaching Assistant)

2015 Spring Introduction to Perception (Johannes Burge)

2014 Fall Introduction to Cognitive Science (David Brainard and Lyle Ungar)

2012 Fall Introduction to Psychology (Caroline Connolly)

SERVICE TO THE PROFESSION

Justice, Equity, Diversity, & Inclusion

2020–2022	Postdoctoral Representative, <i>Diversity & Representation Committee (DRC)</i> , Department of Cognitive Science, Johns Hopkins University
2020–2022	Co-organizer of Early Career Colloquium Series, Department of Cognitive Science, Johns Hopkins University
2020–2022	Member of the Department Climate Committee, Department of Cognitive Science, Johns Hopkins University
2020–2022	Mentor to first-generation and international Ph.D. applicants to the Cognitive Science graduate program

Ad Hoc Reviewer

Psychology: Cognition; Cognitive Research: Principles and Implications; Cognitive Science; Journal of Experimental Psychology: Human Perception and Performance; Journal of Experimental Psychology: General; Open Mind; Psychological Science; Visual Cognition

Neuroscience: Brain and Cognition; Cerebral Cortex; eLife; Journal of Neuroscience; Language, Cognition, and Neuroscience

Conferences: Cognitive Sciences Society

Public Engagement

2014 August	Experiment Leader, Community Science Carnival, Philadelphia, Pennsylvania
2014 July	Journal Club Leader, Penn Neuroscience Boot Camp, University of Pennsylvania
2014 July	Activity Leader, Science After Hours, Franklin Institute, Philadelphia, Pennsylvania

PROFESSIONAL MEMBERSHIPS

Vision Sciences Society (VSS) Cognitive Sciences Society (CSS) Psychonomic Society

PROFESSIONAL DEVELOPMENT

2018 Summer Trainee, Genetics & Neurobiology of Language Course, Cold Spring Harbor

Laboratory

LANGUAGES & SOFTWARE

English (native speaker), Hebrew (proficient), Italian (proficient), Spanish (basic) Python, R, HTML/CSS/JavaScript, MATLAB, Blender