Christopher Baldassano

CONTACT INFORMATION	Columbia University 1190 Amsterdam Ave 370 Schermerhorn Hall c.baldassano@columbia.edu New York, NY 10027 http://www.chrisbaldassano.com/

EMPLOYMENT

Columbia University
Assistant Professor, Department of Psychology (2018-)
Affiliate Member, Mortimer B. Zuckerman Mind Brain Behavior Institute (2021-)

Princeton University
Postdoctoral Research Associate,
Princeton Neuroscience Institute (2015-2018)
  PIs: Professors Uri Hasson and Ken Norman

EDUCATION

Stanford University, Ph.D., Computer Science, March 2015
  Advisor: Professor Fei-Fei Li
  Co-Advisor: Diane M. Beck, University of Illinois at Urbana-Champaign

Princeton University B.S.E., Electrical Engineering, June 2009
  Summa cum Laude (GPA 3.97)
  Certificate in Robotics and Intelligent Systems
  Certificate in Engineering Physics

REFEREED PUBLICATIONS

J.A. Williams, E.H. Margulis, S.A. Nastase, J. Chen, U. Hasson, K.A. Norman, **C. Baldassano**. "High-order areas and auditory cortex both represent the high-level event structure of music." Journal of Cognitive Neuroscience, in press.

M. Kumar, M. Anderson, J. Antony, **C. Baldassano**, P. Brooks, M. Cai, P.-H. Chen, C. Ellis, G. Henselman-Petrusek, D. Huberdeau, J.B. Hutchinson, Y.P. Li, Q. Lu, J. Manning, A.C. Mennen, S. Nastase, H. Richard, A.C. Schapiro, N. Schuck, M. Shvartsman, N. Sundaram, D. Suo, J.S. Turek, V. Vo, G. Wallace, Y. Wang, H. Zhang, X. Zhu, M. Capota, J. Cohen, U. Hasson, K. Li, P.J. Ramadge, N. Turk-Browne, T. Willke, K.A. Norman. "BrainIAK: The Brain Imaging Analysis Kit." Aperture, in press.

A. Wu, S.A. Nastase, **C. Baldassano**, N.B. Turk-Browne, K.A. Norman, B.E. Engelhardt, J.W. Pillow. "Brain kernel: a new spatial covariance function for fMRI data." NeuroImage, in press.

S.A. Nastase, Y.-F. Liu, H. Hillman, A. Zadbood, L. Hasenfratz, N. Keshavarzian, J. Chen, C.J. Honey, Y. Yeshurun, M. Regev, M. Nguyen, C.H.C. Chang, **C. Baldassano**, O. Lositsky, E. Simony, M.A. Chow, Y.C. Leong, P.P. Brooks, E. Micciche, G. Choe, A. Goldstein, T. Vanderwal, Y.O. Halchenko, K.A. Norman, U. Hasson. "Narratives: fMRI data for evaluating models of naturalistic language comprehension." Scientific Data, in press.

C.S. Lee, M. Aly, **C. Baldassano**. "Anticipation of temporally structured events in the brain." eLife, 2021. 10.7554/eLife.64972

C. Chen, Q. Lu, Andre Beukers, **C. Baldassano**, K. Norman. "Learning to perform role-filler binding with schematic knowledge." PeerJ, 2021. 10.7717/peerj.11046

C. Ellis, **C. Baldassano**, A.C. Schapiro, M.B. Cai, J.D. Cohen. "Facilitating open-science with realistic fMRI simulation: validation and application." PeerJ, 2020. 10.7717/peerj.8564

M. Siegelman and **C. Baldassano**. "Remembering together." News & Views, Nature Human Behaviour, 2019. 10.1038/s41562-019-0789-x

M. Silva, **C. Baldassano**, L. Fuentemilla. "Rapid memory reactivation at movie event boundaries promotes episodic encoding." Journal of Neuroscience, 2019. 10.1523/ JNEUROSCI.0360-19.2019

C. Baldassano, U. Hasson, K.A. Norman. "Representation of real-world event schemas during narrative perception." Journal of Neuroscience, 2018. 10.1523/JNEUROSCI.0251-18.2018

I.I.A. Groen, M.R. Greene, **C. Baldassano**, L. Fei-Fei, L., D.M. Beck, C.I. Baker. "Distinct contributions of functional and deep neural network features to representational similarity of scenes in human brain and behavior." eLife, 2018. 10.7554/eLife.32962

C. Baldassano, J. Chen, A. Zadbood, J.W. Pillow, U. Hasson, K.A. Norman. "Discovering event structure in continuous narrative perception and memory." Neuron, 2017. 10.1016/j.neuron.2017.06.041

K. Vodrahalli, P.H. Chen, Y. Liang, **C. Baldassano**, J. Chen, E. Yong, C. Honey, U. Hasson, P. Ramadge, K. Norman, S. Arora. "Mapping Between fMRI Responses to Movies and their Natural Language Annotations." NeuroImage, 2017. 10.1016/ j.neuroimage.2017.06.042

C. Baldassano, A. Esteva, L. Fei-Fei, D.M. Beck. "Two distinct scene processing networks connecting vision and memory." eNeuro, 2016. 10.1523/ENEURO.0178-16.2016

C. Baldassano, L. Fei-Fei, D.M. Beck. "Pinpointing the peripheral bias in neural scene processing networks during natural viewing." Journal of Vision, 2016. 10.1167/16.2.9

C. Baldassano, D.M. Beck, L. Fei-Fei. "Human-Object Interactions Are More than the Sum of Their Parts." Cerebral Cortex, 2016. 10.1093/cercor/bhw077

M.R. Greene, **C. Baldassano**, A. Esteva, D.M. Beck, L. Fei-Fei. "Visual Scenes are Categorized by Function." Journal of Experimental Psychology: General, 2016. 10.1037/ xge0000129

C. Baldassano, D.M. Beck, L. Fei-Fei, "Parcellating connectivity in spatial maps." PeerJ, 2015. 10.7717/peerj.784

C. Baldassano, D.M. Beck, L. Fei-Fei. "Differential Connectivity Within the Parahippocampal Place Area." NeuroImage, 2013. 10.1016/j.neuroimage.2013.02.073

C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Discovering Voxel-Level Functional Connectivity Between Cortical Regions." Machine Learning and Interpretation in Neuroimaging Workshop, Neural Information Processing Systems (NIPS) 2012.

C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Voxel-level functional connectivity using spatial regularization," NeuroImage, 2012. 10.1016/j.neuroimage.2012.07.046

PUBLIC PREPRINTS	T.S. Yates, L.J. Skalaban, C.T. Ellis, A.J. Bracher, **C. Baldassano**, N.B. Turk-Browne. "Neural event segmentation of continuous experience in human infants." bioRxiv, 2021. 10.1101/2021.06.16.448755
	R. Masís-Obando, K.A. Norman, **C. Baldassano**. "Schema representations in distinct brain networks support narrative memory during encoding and retrieval." bioRxiv, 2021. 10.1101/2021.05.17.444363
	S.S. Cohen, **C. Baldassano**. "Developmental changes in story-evoked responses in the neocortex and hippocampus." bioRxiv, 2021. 10.1101/2021.04.12.439526
AWARDS	Elected to Memory Disorders Research Society (2020)
	Lenfest Junior Faculty Development Award (2018)
	ScienceSeeker Editor's Selection for article "How deep is the brain?" (2016)
	Best Presenter Award, Science Teaching Through Art (STAr) (2014)
	NSF Graduate Research Fellowship (2010-2012, 2013-2014)
FUNDING SUPPORT	*How cognitive maps potentiate new learning: constraining a computational model by decoding the thoughts of superior memorists*
	National Science Foundation, Proposal ID 2024622
	Role: Co-PI
	09/01/2020 - 08/31/2023
	$516,701 Columbia total costs ($990,000 across all sites)
	Collaboratory Fellows Fund
	Columbia University
	Role: Co-instructor
	07/01/2019 - 01/01/2020
	$14,963 ($149,859 for full project)
	Lenfest Junior Faculty Development Award
	Columbia University
	Role: PI
	01/01/2019 - 01/01/2020
	$15,000
INVITED TALKS AND WORKSHOPS	USA Memory Championship (2021)
	Spinoza Centre for Neuroimaging (2021)
	NIMH Workshop on Naturalistic Stimuli and Individual Differences (2021)
	NIMH Dynamic and Interactive Data Visualization Workshop (2021)
	Virtual Feindel Brain and Mind Lecture Series, Montreal Neurological Institute (2021)
	C3N Seminar, New York State Psychiatric Institute (2020)
	University of Arizona Cognitive Science Virtual Colloquium Series (2020)
	Oxford Wellcome Centre for Integrative Neuroimaging (2020)
	Yale Current Works in Neuroscience (2019)
	Flux Developmental Cognitive Neuroscience Congress (2019)
	CUNY Graduate Center Neuroscience Seminar Series (2019)
	Columbia University Department of Human Development Colloquium (2019)
	Princeton BrainIAK Workshop (2019)
	Columbia University Psychology Colloquium (2018)
	USA Memory Championship (2018)
	TEDxCarnegieLake (2017)

TEACHING AND OUTREACH EXPERIENCE	*Undergraduate courses*

Undergraduate courses
   COGS UN1001: Introduction to Cognitive Science
      Fall 2021
   PSYC GU4239: Cognitive Neuroscience in Narrative Film
      Fall 2018, Fall 2019, Fall 2020, Fall 2021
   PSYC UN1610: Introductory Statistics for Behavioral Scientists
      Spring 2019, Spring 2020, Spring 2021
   PSYC GR6130: Tools for Reproducible & Collaborative Science
      Fall 2019
   Princeton Neuroscience Junior Seminar
      Fall 2015, Fall 2016, Fall 2017

MENTORSHIP

Postdoctoral fellows
   Samantha Cohen
   Halle Dimsdale-Zucker
   Matthew Sachs

Graduate students (Primary or co-primary advisor)
   Matthew Siegelman
   Hannah Tarder-Stoll
   Jiawen Huang

Graduate students (Secondary advisor)
   Jamal Williams
   Rolando Masis-Obando
   Celia Durkin
   Wenxuan Guo
   Marta Silva
   Benjamin Silver
   Yaniv Abir
   Camille Gasser

Graduate students (Thesis committee)
   Serra Favila
   Petar Raykov
   Michael Cohanpour

Undergraduate honors students
   Sunjae Shim
   Mareike Keller

MEDIA COVERAGE

"The Science of Mind Reading." *The New Yorker*, December 6, 2021.

"Several brain regions help us anticipate what's going to happen next." *PNAS Journal Club*, April 30, 2021.

"Researchers identify a neural mechanism involved in the creation and consolidation of memories." *University of Barcelona News*, October 22, 2019.

"A toolkit for data transparency takes shape." *Nature*, August 20, 2018.

"'Sherlock' in the depths of the brain." *Austrian Broadcasting Corporation*, August 4, 2017.

"Scientists Legit Studied The Brains Of People Watching 'Sherlock' And Discovered Something Super Cool." *Gizmodo Australia*, August 4, 2017.

"'Sherlock' and the case of narrative perception." *Science Daily*, August 2, 2017.

Service	*Departmental Service*
	Director of Undergraduate Studies for Psychology (2019-)
	COVID-19 Research Ramp-Up Committee
	University Service
	Elected to Junior Faculty Advisory Board (2020-2022)
	Professional Service
	NSF Cognitive Neuroscience Panel (2021)
	Volunteer reviewer
	Attention, Perception, & Psychophysics
	Behavioural Brain Research
	Cerebral Cortex
	Cognition
	Cognitive Research: Principles and Implications
	Current Biology
	Current Opinion in Neurobiology
	Developmental Science
	eLife
	eNeuro
	European Conference on Computer Vision (ECCV)
	Frontiers in Human Neuroscience
	IEEE Conference on Computer Vision and Pattern Recognition (CVPR)
	IEEE Journal of Selected Topics in Signal Processing
	IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
	IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)
	International Conference on Computer Vision (ICCV)
	International Workshop on Pattern Recognition in Neuroimaging
	Journal of Cognitive Neuroscience
	Journal of Neuroscience
	Journal of Neuroscience Methods
	Journal of Vision
	Nature Communications
	Nature Human Behavior
	Nature Neuroscience
	Neural Information Processing Systems (NIPS)
	NeuroImage
	Neuropsychologia
	PLOS One
	Proceedings of the National Academy of Sciences (PNAS)
	Psychology and Aging
	Science Advances
	Trends in Cognitive Science
	Quarterly Review of Film and Video

Conference and Workshop Presentations

C. Baldassano. "Perception and memory using prior knowledge of specific episodes, familiar scripts, and novel schemas." Oral Presentation at the Memory Disorders Research Society meeting (2021).

J. Huang, W.J. Ma, C. Baldassano. "Modelling schema development and its role in memory through 4-in-a-row, a two-player, abstract strategy board game." Poster

Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2021).

M. Siegelman, N. Kriegeskorte, C. Baldassano. "Modeling naturalistic schema learning with computer-generated poetry." Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2021).

A. Soares, C. Baldassano. "Manipulating Temporal Event Structure via Top-Down Script Activation." Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2021).

J. Huang, W.J. Ma, C. Baldassano. "Modelling schema development and its role in memory through 4-in-a-row, a two-player, abstract strategy board game." Oral Presentation at Using Games to Understand Intelligence Workshop, Cognitive Science Society virtual meeting (2021).

T.S. Yates, L.J. Skalaban, C.T. Ellis, A.J. Bracher, C. Baldassano, N.B. Turk-Browne. "How infants carve up continuous experience into neural events." Poster Presentation and Oral Presentation at the Flux Virtual Congress (2021).

K. Kleespies, M. Sumner, E. McDevitt, C. Baldassano, U. Hasson, K. Norman, M. Schönauer. "The neocortex rapidly acquires a content-specific representation of naturalistic learning material." Poster Presentation at Psychologie und Gehirn (2021).

S. Cohen and C. Baldassano. "Event representations become more stable and predictive with age." Poster Presentation at the Flux Virtual Congress (2020).

S. Shim and C. Baldassano. "Event Perception Based on Working Memory Demand." Poster Presentation at the Columbia Psychology Symposium (2020).

H. Tarder-Stoll, C. Baldassano, M. Aly. "Multi-Step Prediction and Integration in Naturalistic Environments." Poster Presentation at the Cognitive Neuroscience Society Virtual Meeting (2020).

C.S. Lee, M. Aly, C. Baldassano. "Anticipation of temporally structured events in the brain." Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

M.E. Siegelman, N. Kriegeskorte, C. Baldassano. "A neural network model of naturalistic schema learning with computer-generated poetry." Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

S.S. Cohen, C. Baldassano. "The evolution of narrative processing during development." Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

S.A. Nastase, Y. Liu, H. Hillman, A. Zadbood, L. Hasenfratz, N. Keshavarzian, J. Chen, C.J. Honey, Y. Yeshurun, M. Regev, M. Nguyen, C.H.C. Chang, C. Baldassano, O. Lositsky, M.A. Chow, Y.C. Leong, P.P. Brooks, A. Goldstein, G. Choe, K.A. Norman, U. Hasson. "Narratives: fMRI data for evaluating models of naturalistic language comprehension." Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

R. Masis-Obando, U. Hasson, K.A. Norman, C. Baldassano. "Decoding mental walk-throughs of spatial memories in an immersive virtual reality environment." Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

A. Reblando, T. Kelishasi, C. Baldassano. "Manipulating temporal event structure via top-down script activation." Poster Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2019).

C.S. Lee, M. Aly, C. Baldassano. "Anticipation of temporally structured events in the brain." Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2019).

M. Siegelman and C. Baldassano. "Modeling brain representations of structured schematic poetry with recurrent neural networks." Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2019).

M. Silva, C. Baldassano, L. Fuentemilla. "Electrophysiological signatures of event segmentation during movie viewing and recall." Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2018).

R. Masis-Obando, K.A. Norman, C. Baldassano. "Decoding mental walkthroughs of spatial memories in an immersive virtual reality environment." Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2018).

J. Williams, C. Baldassano, J. Chen, U. Hasson, K.A. Norman. "Exploring event structure in song perception." Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2018).

C. Baldassano. "Perception and memory of schematic narrative events." Oral Presentation at the International Conference on Learning and Memory (2018).

J. Williams, C. Baldassano, J. Chen, U. Hasson, K.A. Norman. "Exploring event structure in song perception." Oral Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2018).

A. Beukers, C. Baldassano, U. Hasson, K.A. Norman. "Learning the statistics of events." Poster Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2018).

C. Baldassano, R. Masis-Obando, U. Hasson, K.A. Norman. "Perception and recall of narrative event schemas." Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2017).

J.D. Cohen, M. Lesnick, B. Keller, C. Baldassano, A.C. Schapiro, C.T. Ellis. "Using realistic, synthetic fMRI data to validate Topological Data Analysis as a tool for fMRI." Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2017).

J. A. Williams, J. Chen, C. Baldassano, U. Hasson, K.A. Norman. "Neural representation of musical contexts in high-level cortical regions." Poster Presentation at the Society for Neuroscience Annual Meeting, Washington, DC (2017).

I. I. Groen, M.R. Greene, C. Baldassano, L. Fei-Fei, D.M. Beck, C.I. Baker. "Convolutional neural networks best predict representational dissimilarity in scene-selective cortex: comparing computational, object and functional models." Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2017).

I. I. Groen, M.R. Greene, C. Baldassano, D.M. Beck, L. Fei-Fei, C.I. Baker. "Comparing computational, object and functional models of scene representation in the human brain." Oral Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).

M. Regev, E. Simony, C. Baldassano, U. Hasson. "Attention selectively modulates dynamical functional connectivity in processing of simultaneously presented spoken and written narratives." Oral Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).

C. Baldassano, U. Hasson, K.A. Norman. "Representation of real-world event schemas during narrative perception." Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).

J.W. Antony, C. Baldassano, M. Aly, K.A. Norman, N.B. Turk-Browne. "Reconstructing spatial location and forward planning during navigation." Poster Presentation at the Society for Neuroscience Annual Meeting, San Diego, CA (2016).

C. Baldassano, J. Chen, J. Pillow, U. Hasson, K. Norman. "Discovering event structure in continuous narrative perception and memory." Oral Presentation at the Manhattan Area Memory Meeting, New York, NY (2016).

C. Baldassano, J. Chen, J. Pillow, U. Hasson, K. Norman. "Tracking brain activity during continuous perception and recall." Oral Presentation at the Context and Episodic Memory Symposium, Philadelphia, PA (2016).

C. Baldassano*, A. Saxe*. "A theory of learning dynamics in perceptual decision-making." Poster Presentation at the Computational and Systems Neuroscience (Cosyne) conference, Salt Lake City, NV (2016).

C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. "Two distinct scene processing networks connecting vision and memory." Oral Presentation at the Society for Neuroscience Annual Meeting, Chicago, IL (2015).

C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. "Two distinct scene processing networks connecting vision and memory." Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2015).

M.R. Greene, C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. "Functions Provide a Fundamental Categorization Principle for Scenes." Oral Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2015).

C. Baldassano, D.M. Beck, L. Fei-Fei. "Parcellating connectivity in spatial maps." Poster Presentation at BayLearn (Bay Area Machine Learning Symposium), Berkeley, CA (2014).

C. Baldassano, A. Esteva, D.M. Beck, L. Fei-Fei. "Comparing and parcellating voxel-scale multimodal human brain connectivity." Poster Presentation at the Fourth Biennial Conference on Resting State / Brain Connectivity, Cambridge, MA (2014).

C. Baldassano, D.M. Beck, L. Fei-Fei. "Supervoxel parcellation of visual cortex connectivity." Poster Presentation at the Vision Sciences Society Annual Meeting, St. Pete Beach, FL (2014).

C. Baldassano, D.M. Beck, L. Fei-Fei. "Differential Connectivity Within the Parahippocampal Place Area." Oral Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2013).

C. Baldassano, D.M. Beck, L. Fei-Fei. "Differential Connectivity Within the Parahippocampal Place Area." Poster Presentation at the Cognitive Neuroscience Society Annual Meeting, San Francisco, CA (2013).

C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Discovering Voxel-Level Functional Connectivity Between Cortical Regions." Oral and Poster Presentation at the Machine Learning and Interpretation in NeuroImaging Workshop, NIPS (2012).

C. Baldassano, D.M. Beck, L. Fei-Fei. "Neural Representation of Human-Object Interactions." Oral Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2012).

A.G. Lustig, C. Baldassano, E. Caddigan, L. Fei-Fei, D.M. Beck. "Does category-based attention change the representation of scene category?" Poster Presentation at the Cognitive Neuroscience Society Annual Meeting, Chicago, IL (2012).

M.C. Iordan, C. Baldassano, D.B. Walther, D.M. Beck, L. Fei-Fei. "Translation Invariance of Natural Scene Categories." Oral Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2011).

C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Fine-Grained Functional Connectivity using Spatial Regularization." Poster Presentation at the NIPS Workshop on Machine Learning and Interpretation in Neuroimaging (2011).

C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Objects in context: decoding and connectivity." Poster Presentation at the Collaborative Research in Computational Neuroscience Principal Investigator Meeting, Princeton, NJ (2011).

C. Baldassano, M.C. Iordan, D.M. Beck, L. Fei-Fei. "Decoding objects undergoing contextual violations." Poster Presentation at the Vision Sciences Society Annual Meeting, Naples, FL (2011).

OTHER PUBLICATIONS

A. Saxe, C. Baldassano. "Convergence properties of deep linear networks." CS229T Final Project Report, 2014.

C. Baldassano, G. Franken, J. Mayer, A. Saxe, D. Yu. "Kratos: Princeton University's Entry in the 2008 IGVC." 21st Annual IS&T/SPIE Symposium on Electronic Imaging, Proc. Vol. 7252, 72520I (2009); DOI:10.1117/12.810509.

C. Baldassano. "Compact Attitude Sensor System using SR-UKF." National Science Foundation SUNFEST 2008 Report TR-CST12SEP08, p. 164-195.

I. Ashwash, A.R. Atreya, C. Baldassano, D. Benjamin, B.C. Cattle, B.M. Collins, A. Downey, G.H. Franken, J. Glass, Z. Glass, L. Gorman, J.S. Herbach, W. Hu, U. Javed, J.R. Mayer, S.M. Momen, A.M. Saxe, S.N. Schiffres, D. Yu, A.L. Kornhauser. "Princeton University Technical Paper." Defense Advanced Research Projects Agency (DARPA), Nov. 2007.