

Elissa M. Aminoff

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ACADEMIC APPOINTMENTS

2016 – Present **Assistant Professor**, Department of Psychology, Fordham University
2016 – Present **Adjunct Faculty**, Robotics Institute, Carnegie Mellon University
2013 – 2016 **Research Scientist/Special Faculty**, Department of Psychology, Center for the Neural Basis of Cognition, Carnegie Mellon University

EDUCATION & TRAINING

2011 – 2013 **Postdoctoral Researcher**, Center for the Neural Basis of Cognition, Carnegie Mellon University; Advisor: Michael Tarr; Collaborators: Marlene Behrmann, Abhinav Gupta.
2008 – 2011 **Postdoctoral Researcher**, Psychology Department, University of California Santa Barbara; Advisor: Michael B. Miller; Collaborator: Scott T. Grafton
2003 – 2008 **Ph.D. in Psychology: Cognition, Brain, and Behavior**, Department of Psychology, Harvard University; Advisors: Moshe Bar and Daniel L. Schacter
2001 – 2003 **Research Assistant**, Martinos Center for Biomedical Imaging, Massachusetts General Hospital; Advisor: Moshe Bar
1997 – 2001 **Sc.B., in Cognitive Neuroscience** with Honors, Brown University; Advisor: Michael Tarr and Katharine Phillips

RESEARCH GRANTS

2017 – 2018 **Fordham University, Faculty Research Grant**, \$6,500.
Electrophysiological Signatures of the Associative Nature of Scene Processing
Principal Investigator

2014 – 2019 **National Science Foundation**, \$462,856
#1439237, CompCog: Human Scene Processing Characterized by Computationally-derived Scene Primitives
Co-Principal Investigator, Co-P.I.: Michael Tarr

PUBLICATIONS (h index = 17)

Peer-Reviewed Articles in Refereed Journals or Conference Proceedings

1. Yang, Y.**; Tarr, M., Kass, R. & **Aminoff, E.** (In Press). Exploring spatio-temporal neural dynamics of the human visual cortex. *Human Brain Mapping*.
2. Chang, N.**; Pyles, J., Marcus, A., Gupta, A., Tarr, M., & **Aminoff, E.** # (2019). BOLD5000, a public fMRI dataset while viewing 5000 visual images. *Scientific Data* (6) 1, 49.

3. Blauch, N.**, **Aminoff, E.**, & Tarr, M. (2017). Functionally localized representations produce distributed information: insight from simulations of deep, convolutional neural networks. *Proceedings of the Cognitive Science Society*.
4. Yang, Y.**, **Aminoff, E.**, Tarr, M., & Kass, R. (2016). A state-space model of cross-region dynamic connectivity in MEG/EEG. In *Advances In Neural Information Processing Systems*, 1226-1234.
5. **Aminoff, E.** #, Li, Y., Pyles, J., Ward, M., R. M. Richardson, & A. Ghuman. (2016). Associative hallucinations result from stimulating left ventromedial temporal cortex. *Cortex*, 83, 139-144.
6. Kim, J.+ , **Aminoff, E.**+ , Kastner, S., & Behrmann, M. (2015). The neural basis of developmental topographic disorientation. *Journal of Neuroscience*, 35, 12954-12969. + Equal contribution.
7. **Aminoff, E.** # & Tarr, M. (2015). Associative processing is inherent in scene perception. *PLoS ONE*, 10(6): e0128840.
8. **Aminoff, E.** #, Toneva, M.**, Shrivastava, A., Chen, X., Misra, I., Gupta, A. & Tarr, M. (2015). Applying artificial vision models to human scene understanding. *Front. Comput. Neurosci.* 9:8. doi: 10.3389/fncom.2015.00008. Special Research Topic: Integrating computational and neural findings in visual object perception.
9. **Aminoff, E.** #, Freeman, S.**, Clewett, D.**, Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2015). Maintaining a cautious state of mind during a recognition test: A large-scale fMRI study. *Neuropsychologia*, 67, 132-147.
10. Hermunstad, A., Brown, K., Bassett, D., **Aminoff, E.**, Frithsen, A., Johnson, A., Tipper, C., Miller, M., Grafton, S., & Carlson, J. (2014). Structurally-constrained relationships between cognitive states in the human brain. *PLoS Computational Biology* 10: e1003591.
11. **Aminoff, E.** #, Kveraga, K., & Bar, M. (2013). The role of the parahippocampal cortex in cognition. *Trends in Cognitive Sciences*, 17, 379-390.
12. Hermunstad, A., Bassett, D., Brown, K., **Aminoff, E.**, Clewett, D., Freeman, S., Frithsen, A., Johnson, A., Tipper, C., Miller, M., Grafton, S., & Carlson, J. (2013). Structural foundations of resting-state and task-based neural activity in the human brain. *Proceedings of the National Academy of Sciences*, 110, 6169-6174.
13. **Aminoff, E.** #, Clewett, D.** , Freeman, S.** , Frithsen, A., Tipper, C., Johnson, A., Grafton, S., & Miller, M. (2012). Individual differences in shifting decision criterion: A recognition memory study. *Memory & Cognition*, 40, 1016-1030.
14. Miller, M., Donovan, C., Bennett, C., **Aminoff, E.**, & Mayer, R. (2012). Individual differences in cognitive style and strategy predict similarities in the patterns of brain activity between individuals. *NeuroImage*, 59, 83-93.
15. Kveraga, K., Ghuman, A., Kassam, K., **Aminoff, E.**, Hamalainen, M., Chaumon, M., & Bar, M. (2011). Early onset of neural synchronization in the contextual associations network. *Proceedings of the National Academy of Sciences*, 108: 3389-3394.
16. **Aminoff, E.**, Schacter, D. L., & Bar, M. (2008). The cortical underpinnings of context-based memory distortion. *Journal of Cognitive Neuroscience*, 20, 2226-2237.

17. Chiao, J. Y., Iidaka, T., Gordon, H. L., Nogawa, J., Bar, M., **Aminoff, E.**, Sadato, N., & Ambady, N. (2008). Cultural specificity in amygdala response to fear faces. *Journal of Cognitive Neuroscience*, 20, 2167-2174.
18. Bar, M., **Aminoff, E.**, Schacter, D. (2008). Scenes unseen: The parahippocampal cortex subserves contextual associations, not scenes per se. *Journal of Neuroscience*, 28, 8539-8544.
19. Bar, M., **Aminoff, E.**, & Ishai, A. (2008). Famous faces activate contextual associations in the parahippocampal cortex. *Cerebral Cortex*, 18, 1233-1238.
20. Bar, M., **Aminoff, E.**, Mason, M., & Fenske, M. (2007). The units of thought. *Hippocampus*, 17, 420-428.
21. **Aminoff, E.**, Gronau, N., & Bar, M. (2007). The parahippocampal cortex mediates spatial and non spatial associations. *Cerebral Cortex*, 27, 1493-1503.
22. Fenske, M., **Aminoff, E.**, Gronau, N., & Bar M. (2006). Top-down facilitation of visual object recognition: Object-based and context-based contributions. *Progress in Brain Research*, 155, 3-21.
23. Zago, L., Fenske, M. J., **Aminoff, E.**, & Bar, M. (2005). The rise and fall of priming: How visual exposure shapes cortical representations of objects. *Cerebral Cortex*, 15, 1655-1665.
24. Bar, M. & **Aminoff, E.** (2003). Cortical analysis of visual context. *Neuron*, 38, 347-358.

Other Scholarly Publications (public datasets, book chapters, invited papers)

1. Baror, S., **Aminoff, E.**, & Bar, M. (In Press). Proactive by default. In, Ochsner, K., & Gilead, M. (Eds.), *The Neural Bases of Mentalizing*. Springer Press.
2. Chang, N.**, Pyles, J., Marcus, A., Gupta, A., Tarr, M., & **Aminoff, E.**# (2018). BOLD5000. <https://kithub.figshare.com/articles/BOLD5000/6459449/4>
3. Chang, N.**, Pyles, J., Marcus, A., Gupta, A., Tarr, M., & **Aminoff, E.**# (2018). BOLD5000. <https://openneuro.org/datasets/ds001499/>
4. Tarr, M & **Aminoff, E.** (2016). Can big data help us understand human vision? In, Jones, M. (Ed.), *Big Data in Cognitive Science*. Psychology Press (Taylor & Francis).
5. **Aminoff, E.** & Tarr, M. (2016). Perception and Cognition. In, Miller H. (Ed). *The SAGE encyclopedia of theory in psychology*. SAGE publications. DOI: <http://dx.doi.org/10.4135/9781483346274.n227>
6. **Aminoff, E.** (2014). Putting scenes in context. In, Kveraga, K. & Bar, M. (Eds), *Scene Vision: Making sense of what we see* (pp. 135-154). Cambridge: MIT Press.
7. **Aminoff, E.**, Balslev, D., Borroni, P., Bryan, R.E., Chua, E.F., Cloutier, J., Cross, E.S., Drew, T., Funk, C.M., Gil-da-Costa, R., Guerin, S.A., Hall, J.L., Jordan, K.E., Landau, A.N., Molnar-Szakacs, I., Montaser-Kouhsari, L., Olofsson, J.K., Quadflieg, S., Somerville, L.H., Sy, J.L., Uddin, L.Q., & Yamada, M. (2009). The landscape of cognitive neuroscience: Challenges, rewards, and new perspectives. In M.S. Gazzaniga (Ed.), *The Cognitive Neurosciences IV*. Cambridge, MA: MIT Press.

Designates corresponding author

** Designates student mentored co-authors.

Media

Smarter AIs could help us understand how our brains interpret the world. 2018. Science Magazine.
<https://www.sciencemag.org/news/2018/09/smarter-ais-could-help-us-understand-how-our-brains-interpret-world>

Unlocking the mystery of how the brain creates vision. 2016. Scientific American.
<http://www.scientificamerican.com/article/unlocking-the-mystery-of-how-the-brain-creates-vision/>

XxXX: 10 interviews with inspiring female scientists. 2016. Global Agenda, World Economic Forum.
<https://www.weforum.org/agenda/2016/06/xxxx-10-interviews-with-inspiring-female-scientists/>

World Economic Forum, *IdeasLab*. Decoding the neural basis of visual cognition.
<https://youtu.be/1UYrGP4ljJw>

CONFERENCE PRESENTATIONS

Aminoff, E. & Young, A. ** (2019, October). A representational similarity analysis examining scene categorization in the brain. To be presented at the annual meeting of the Society for Neuroscience, Chicago, IL.

Aminoff, E. & Hughes H.** (2019, May). Scene feature preferences found in scene selective cortex. Presented at the annual meeting of the Vision Science Society, St. Pete, FL.

Chang, N. **, Pyles, J., Gupta, A., Tarr, M., & **Aminoff, E.** (2018, September). A public fMRI dataset of 5000 scenes: a resource for human vision science. Presented at the annual meeting of Cognitive Computational Neuroscience, Philadelphia, PA.

Pyles, J., Chang, N.**, Pyles, J., Tarr, M., Gupta, A., & **Aminoff, E.**, (2018, June) Scaling up neural datasets: A public fMRI dataset of 5000 scenes. Presented at the annual meeting of the Organization of Human Brain Mapping, Singapore

Chang, N.**, **Aminoff, E.**, Pyles, J., Tarr, M., & Gupta, A. (2018, May) Scaling up neural datasets: A public fMRI dataset of 5000 scenes. Presented at the annual meeting of the Vision Science Society, St. Pete, FL.

Blauch, N.**, **Aminoff, E.**, Tarr, M. (2017, September) Face module activations inform non-face discrimination. Presentation at the inaugural conference on Cognitive Computational Neuroscience, New York, New York.

Aminoff, E. (2017, July). How can artificial vision models teach us about human scene understanding? Invited talk at the Psychonomics Leading Edge Workshop: Beyond the Lab: using big data to discover principles of cognition, Madison, Wisconsin.

Aminoff, E., (2017, May). Associative Processing in Scene Understanding. Talk presented at the NYU meeting of Advances in Memory Systems, New York, NY.

Yang, Y.**, Kass, R., Tarr, M. & **Aminoff, E.** (2016, December). Understanding neural dynamics of human vision using convolutional neural networks. Poster presentation at the Woman in Machine Learning Workshop at Neural Information Processing Systems, Barcelona, Spain.

- Aminoff, E., & Tarr, M.** (2016, November). Framing scene perception in the brain. Talk presentation at the annual meeting of the Society of Neuroscience, San Diego, CA.
- Yang, Y.**, Kass, R., Tarr, M., & **Aminoff, E.** (2016, May). Exploring spatio-temporal neural basis of scene processing with MEG/EEG using a convolutional neural network. Poster presented at the annual meeting of the Visual Science Society, St. Pete, FL.
- Aminoff, E.,** Li, Y., Pyles, J., Ward, M., Ghearing, G., Richardson, R. M., Ghuman, A. (2015, October). *Stimulating Associations*. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Aminoff, E.,** Toneva, M.**, Gupta, A., & Tarr, M. (2015, May). *Scene-space encoding within the functional scene-selective network*. *Journal of Vision*, 15, 507. Poster presented at the annual meeting of the Vision Science Society, St. Pete, FL.
- Aminoff, E.,** Toneva, M.**, Gupta, A., & Tarr, M. (2014, November). *High-dimensional encoding of scenes in the PPA, RSC, and OPA*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Aminoff, E. & Tarr, M.** (2014, May). *Anterior to posterior parahippocampal organization of scene information*. *Journal of Vision*, 14, 1079. Poster presented at the annual meeting of the Vision Science Society, St. Pete, FL.
- Toneva, M.**, **Aminoff, E.,** Gupta, A., & Tarr, M. (2014, May). *Towards a model for mid-level feature representation of scenes*. *Journal of Vision*, 14, 363. Poster presented at the annual meeting of the Vision Science Society, St. Pete, FL.
- Aminoff, E. & Tarr, M.** (2013, November). *Associative processing scene selective cortex*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Kim, J. **Aminoff, E.,** Behrmann, M., & Kastner, S. (2013, November). *The neural basis of developmental topographic disorientation*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Aminoff, E. & Tarr, M.** (2013, May). *Spatial and identity associative processing in scene selective cortex*. *Journal of Vision*, 13, 1319. Poster presented at the annual meeting of the Vision Science Society, Naples, FL.
- Aminoff, E.** (2013, April). *Associative processing in scene understanding*. Talk presented at the 26th Perceptual Expertise Network Workshop, Seattle, WA.
- Aminoff, E.,** Kim, J., Kastner, S., & Behrmann, M. (2012, October). *Psychological and neural mechanisms underlying congenital topographagnosia*. Poster presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
- Vettel, J., Vindiola, M., **Aminoff, E.,** Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2012, October). *Predicting individual differences in decision making based on structural, functional, and behavioral measures*. Poster presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.

- Aminoff, E.,** Miller, M., Grafton, S., & Tarr, M. (2012, May). *Early visual areas recruited in automatic contextual processing of words*. *Journal of Vision*, 12, 1112. Talk presented at the annual meeting of the Vision Science Society, Naples, FL.
- Aminoff, E.** (2012, April). Automatic contextual processing of words. Talk presented at the 24th Perceptual Expertise Network Workshop, Chicago, IL.
- Aminoff, E.,** Clewett, D.**, Freeman, S.**, Grafton, S., & Miller, M. (2011, November). *Contextualizing words*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Miller, M., **Aminoff, E.,** & Grafton, S. (2011, November). *Sources of individual variability in whole brain activity during recognition memory*. Talk presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Tipper, C., Janusonis, S., **Aminoff, E.,** Frithsen, A., Johnson, A., Datko, M., Miller, M., & Grafton, S., (2011, November). *Individual variation in strategic inhibitory control is linked to the presence of a 4-repeat allele on the DRD4 gene*. Poster presented at the annual meeting of the Society for Neuroscience, Washington, D.C.
- Aminoff, E.** (2011, September). *Contextual associations and the parahippocampal cortex*. Talk presented at the 23rd Perceptual Expertise Network Workshop, Seattle, WA.
- Aminoff, E.,** Freeman, S.**, Clewett, D.**, Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2011, April). *Neural correlates of criterion shifting in memory*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Aminoff, E.,** Freeman, S.**, Clewett, D.**, Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2011, February). *Some individuals are not cut out for leadership roles*. Poster presented at the annual Army-Industry Collaborative Conference with the Institute of Collaborative Biotechnologies, Santa Barbara, CA.
- Aminoff, E.** (2011, January). *Long-term contextual associations in spatial and non-spatial memory*. Talk presented at the Annual Winter Conference of Neurobiology of Learning & Memory, Park City, UT.
- Aminoff, E.,** Freeman, S.**, Clewett, D.**, Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2010, October). *Behavioral and neural factors that account for individual differences of criterion shifting during recognition memory*. Poster presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Aminoff, E.,** Clewett, D.**, Freeman, S.**, Tipper, C., Frithsen, A., Johnson, A., Grafton, S., & Miller, M. (2010, August). *Factors that predict individual differences in criterion shifting in recognition memory*. Talk presented at the annual Bay Area Memory Meeting, Stanford, CA.
- Aminoff, E.,** Tipper, C., Frithsen, A., Johnson, A., Freeman, S.**, Clewett, D.**, Grafton, S., & Miller, M. (2010, June). *Individual variability in whole brain maps of task-related activity: what are the important factors?* Poster presented at the Organization of Human Brain Mapping conference, Barcelona, Spain.
- Aminoff, E.,** & Bar, M. (2010, May). *Frequency of exposure modulates cortical activity in the contextual associations network*. *Journal of Vision*, 10, 744. Poster presented at the annual meeting of the Vision Science Society, Naples, FL.

- Aminoff, E.,** Tipper, C., Frithsen, A., Johnson, A., Freeman, S.**, Clewett, D.**, Grafton, S., & Miller, M. (2010, March). *Individual differences in adaptive decision making: a cognitive neuroscience analysis of 95 officers and non-officers*. Poster presented at the annual Army-Industry Collaborative Conference with the Institute of Collaborative Biotechnologies, Santa Barbara, CA.
- Aminoff, E.,** Frithsen, A., Tipper, C., Johnson, A., Mendoza, M., Beach, P., Grafton, S., & Miller, M. (2009, October). *Response criterion in recognition memory: an examination of individual differences*. Poster presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Kverga, K., Kassam, K., **Aminoff, E.,** Hamalainen, M., Ghuman, A., Chaumon, M., & Bar M. (2009, October). *Neural dynamics in the contextual association network*. Talk presented at the annual meeting of the Society for Neuroscience, Chicago, IL.
- Aminoff, E.,** Frithsen, A., Tipper, C., Johnson, A., Datko, M., Mendoza, M., Beach, P., Grafton, S., & Miller, M. (2009, August). *Distinguishing the role of response criterion in memory retrieval processing*. Talk presented at the annual Bay Area Memory Meeting, San Francisco, CA.
- Aminoff, E.,** Frithsen, A., Tipper, C., Johnson, A., Mendoza, M., Beach, P., Grafton, S., & Miller, M. (2009, April). *Individual differences in brain structure and function in combat experienced officers*. Poster presented at the initial meeting of the New Horizons in Brain Imaging: a Focus on the Pacific Rim, Waikoloa Village, HI.
- Aminoff, E.,** & Miller, M. (2009, March). *Utilization of contextual associations*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Aminoff, E.,** Frithsen, A., Tipper, C., Johnson, A., Mendoza, M., Beach, P., Grafton, S., & Miller, M. (2009, March). *Individual differences in brain structure and function in combat experienced officers*. Poster presented at the annual Army-Industry Collaborative Conference with the Institute of Collaborative Biotechnologies, Santa Barbara, CA.
- Ishai, A., **Aminoff, E.***, Bar, M. (2007, June). *Contextual processing in the parahippocampal cortex*. Poster presented at the annual meeting of the Organization for Human Brain Mapping, Chicago, IL. *presenter.
- Aminoff, E.,** Ishai, A., Bar, M. (2007, May). *Contextual processing of faces in the parahippocampal cortex*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Bar, M., **Aminoff, E.,** & Mason, M. (2007, May). *The building blocks of "default" brain activity*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Bar, M., **Aminoff, E.,** Mason, M., & Fenske, M. (2007, February). *Scenes, contextual associations, and the brain's default mode*. Talk presented at the Scene Understanding Symposium, Boston, MA.
- Aminoff, E.,** Bar, M., & Schacter, D. L. (2007, November). *How the brain extends the boundaries of a scene in memory*. Talk presented at the annual meeting of the Society for Neuroscience, San Francisco, CA.
- Aminoff, E.,** Schacter, D. Boshyan, J., & Bar, M. (2006, April). *Distinguishing the roles of the Retrosplenial complex and the parahippocampal cortex in contextual processing*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.

- Aminoff, E.**, Boshyan, J., & Bar, M. (2005, November). *The division of labor within the cortical network mediating contextual associations of visual objects*. Talk presented at the annual meeting of the Society for Neuroscience, Washington D.C.
- Aminoff, E.**, Gronau, N., & Bar, M. (2005, May). *The parahippocampal cortex mediates both spatial and non-spatial associative processing*. *Journal of Vision*, 5, 907. Talk presented at the annual meeting of the Vision Science Society, Sarasota, FL.
- Bar, M., **Aminoff, E.**, Boshyan, J., Fenske, M., Gronau, N., & Kassam, K. (2005, May). *The contribution of context to visual object recognition*. *Journal of Vision*, 5, 88. Talk presented at the annual meeting of the Vision Science Society, Sarasota, FL.
- Boshyan, J., Fenske, M., **Aminoff, E.**, & Bar, M. (2005, May). *Cortical manifestations of context-related facilitation of visual object recognition*. *Journal of Vision*, 5, 852. Poster presented at the annual meeting of the Vision Science Society, Sarasota, FL.
- Aminoff, E.**, Schacter, D. L., & Bar, M. (2005, April). *The role of contextual associations and the parahippocampal cortex in creating false memories*. Poster Presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Aminoff, E.**, Gronau, N., & Bar, M. (2004, October). *The parahippocampal cortex mediates spatial as well as non-spatial visual associations*. Talk presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Fenske, M. J., Boshyan, J., **Aminoff, E.**, & Bar, M. (2004, October) *Cortical manifestations of contextual facilitation in visual object recognition*. Talk presented at the annual meeting of the Society for Neuroscience, San Diego, CA.
- Aminoff, E.**, Zago, L., Fenske, M., Linz, H., & Bar, M. (2004, April). *The paradoxical effects of exposure on the recognition and cortical representation of visual objects*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, San Francisco, CA.
- Chiao, J.Y., Iidaka, T., Bar, M., Nogawa, J., **Aminoff, E.**, & Ambady, N. (2004, January). *Recognizing emotions across cultures: Insights from brain and behavior*. Presented at Society for Experimental Social Psychology meeting, TX.
- Kassam, K.S., **Aminoff, E.**, & Bar, M. (2003, November). *Spatial-temporal cortical processing of contextual associations*. Talk presented at the annual meeting of the Society for Neuroscience, New Orleans, LA.
- Aminoff, E.**, & Bar, M. (2003, April). *Cortical mechanisms subserving contextual processing*. Poster presented at the annual meeting of the Cognitive Neuroscience Society, New York, NY.
- Bar, M., & **Aminoff, E.*** (2002, November). *Cortical analysis of contextual visual associations*. Poster presented at the annual meeting of the Society for Neuroscience, Orlando, FL. *presenter
- Aminoff, E.**, Vaitsou, C., Schacter, D. L., & Bar, M. (2002, May). *The cortical network processing contextual, semantic and physical relationships between visual objects*. *Journal of Vision*, 2, 698. Poster presented at the annual meeting of the Vision Science Society, Sarasota, FL.
- Bar, M. & **Aminoff, E.** (2002, May). *Contextual processing of visual objects in the brain*. *Journal of Vision*, 2, 410. Talk presented at the Vision Science Society, Sarasota, FL.

** Designates student mentored co-authors.

AWARDS AND HONORS

2016	Young Scientist, World Economic Forum
2011	Delegate representing University of California Santa Barbara at the University of California Advocacy Day on Capital Hill in Washington, D.C.
2009	New Horizons in Human Brain Imaging: a Focus on the Pacific Rim Trainee Fellowship
2008	Sage Center Summer Institute in Cognitive Neuroscience Fellowship Tahoe
2006	Dartmouth College Summer Institute in Cognitive Neuroscience Fellowship
2004 – 2008	NIMH T32 NRSA Institutional Training Grant (MH070328)
2003 – 2004	Harvard University GSAS Merit Fellowship
2001	Brown University Concentration Honors

INVITED TALKS

January	2019	Graduate Center for Vision Research, SUNY College of Optometry, New York, NY.
January	2019	Center for Vision Research, York University, Toronto, Canada.
January	2018	Seminar on Law and Neuroscience, Law School, Fordham University, New York, NY.
July	2017	Leading Edge Workshop – Beyond the Lab: using big data to discover principles of cognition, University of Wisconsin, Madison, WI.
May	2017	Advances in Memory Systems Conference, NYU, New York, NY.
June	2016	Annual Meeting of the New Champions, IdeasLab, World Economic Forum, Tianjin, China
June	2016	Annual Meeting of the New Champions, BrainHub, World Economic Forum, Tianjin, China
February	2016	Robotics Institute, Carnegie Mellon University, Pittsburgh, PA
January	2016	Department of Psychological and Brain Sciences, Boston University, Boston, MA
January	2016	Department of Psychology, Fordham University, New York, NY
December	2015	Department of Psychology, University of Minnesota, Minneapolis, MN
November	2015	Center for Neuroscience, Indian Institute of Science, Bangalore, India.
October	2015	MURI Review Meeting, Office of Naval Research, Carnegie Mellon University, Pittsburgh, PA
November	2014	MURI Review Meeting, Office of Naval Research, Carnegie Mellon University, Pittsburgh, PA
May	2014	Vision Seminar, Harvard Medical School, Cambridge, MA
May	2014	Cognitive Science Team, Natick Soldier Research, Development, & Engineering Center (NSRDEC), Natick, MA
January	2014	Center for Brain, Biology, and Behavior, University of Nebraska – Lincoln, Lincoln, NE
November	2013	MURI Review Meeting, Office of Naval Research, Carnegie Mellon University, Pittsburgh, PA
October	2013	Department of Psychology, City College, City University of New York, New York, NY
February	2013	Department of Psychology, George Washington University, Washington, D.C.

October	2012	MURI Review Meeting, Office of Naval Research, Carnegie Mellon University, Pittsburgh, PA
October	2011	MURI Review Meeting, Office of Navy Research, Arlington VA
October	2011	Vision and Autonomous Systems Center Seminar, Carnegie Mellon University, Pittsburgh, PA
May	2011	Cognition, Perception, and Cognitive Neuroscience Seminar, University of California Santa Barbara, CA
January	2011	Winter Conference - Neurobiology of Learning & Behavior, Park City, UT
October	2008	Cognition, Perception, and Cognitive Neuroscience Seminar, University of California Santa Barbara, CA
February	2008	Cognition, Brain, and Behavior Series, Harvard University, Cambridge, MA
December	2007	Mind, Brain, and Behavior Series, Harvard University, Cambridge, MA
September	2007	Department of Psychology, University of California Santa Barbara, CA
June	2006	Martinos Center for Biomedical Imaging, MGH, Charlestown, MA
March	2006	Cognition, Brain, and Behavior Series, Harvard University, Cambridge, MA

TEACHING and MENTORING EXPERIENCE

Courses

Undergraduate

Cognitive Neuroscience (PSYC 3110, Fall 2016, Fall 2018)

Biopsychology (PSYC 1100, Spring 2017, Fall 2018, Spring 2019)

Graduate

Introduction to Neuroscience (PSYC 6654, Spring 2018, Spring 2019)

The visual world as seen by neurons and machines (Carnegie Mellon University, Robotics Institute, 16-899A, co-taught with Abhinav Gupta, Spring 2014)

Mentoring

Fordham University

Undergraduate Integrative Neuroscience Program:

2018- : Tess Durham[^]

2018- : Kate Uhling

2018- : Lauren Chan

2018-2019: Mazen Oweimrin^{*}

2018-2019: Annette Young^{*}

2018 : Katherine Farber

2016-2019: Howard Hughes^{*^}

2016-2018: Mario Badro^{*^}

2016-2018: Carli Grace^{*^}

2016-2018: Alyssa Shannon^{*^}

Undergraduate Psychology Program:

2019 - : Charlotte Utschig

2018 - : Edona Gjonbalaj

2018 : Travis Aprile

* Designates undergraduate Honor's Thesis or Senior Neuroscience Project

[^] Designates undergraduate student received a Fordham Undergraduate Research Grant award.

Graduate Students

Master's Theses:

Spring 2019 – Jamie Listokin – Reader

PhD Theses:

In progress: Natasha Chaku – Reader

In progress: Emilie Picard – Reader

Summer 2019: Francesca Falzarano – Reader

Carnegie Mellon University

Center for the Neural Basis of Cognition (CNBC)

2016: Ying Yang – PhD Student – Co-Mentor

Robotics Institute

2017-2018: Nadine Chang – Master’s Student – Co-Mentor

Undergraduate Summer Program in Neural Computation, CNBC (Mentor)

2016: Nicholas Blauch

2015: Davis Lang, Kegan Landfair

2013: Mariya Toneva

Psychology Department

2015: Charlie Burlingham (Undergraduate Thesis); Sophia Wilhelmi (Undergraduate Research Assistant)

University of California, Santa Barbara

Department of Psychological and Brain Sciences

2008-2011 David Clewett, Scott Freeman, Michael Datko (Undergraduate Research Assistants)

PROFESSIONAL ACTIVITIES

- 2019 Co-organizer of the Vision Science Society Satellite event: Large-scale datasets in visual neuroscience.
- 2017 Co-organizer of the International Conference of Computer Vision (ICCV) workshop: Mutual Benefits of Cognitive and Computer Vision, Venice, Italy.
(<https://sites.google.com/site/mbcc2017w/home>)
- 2016 – 2018 Member of the Young Scientists Organization, World Economic Forum
- 2016 – 2018 Member of the Global Future Council on the Future of Computing, World Economic Forum
- 2015 Co-Instructor, fMRI Analysis Workshop, Center for Neuroscience, Indian Institute of Science, Bangalore, India.
- 2013 – 2015 Postdoctoral committee, Center for the Neural Basis of Cognition, Carnegie Mellon University, Pittsburgh, PA
- 2006 – 2007 Organizer of weekly Cognition, Brain, and Behavior seminar series, Harvard University, Cambridge, MA
- 2005 – 2006 Psychology Equal Access Committee, Harvard University, Cambridge, MA
- 2004 – 2005 Co-Organizer of Debates in the Practice of Good Science, Good Practice, Harvard University, Cambridge, MA
- 2003 – 2004 Psychology Representative, Graduate Student Council, Harvard University, Cambridge, MA

Fordham University Professional Service

2018 – present Advisor, Undergraduate Psychology Majors

2018 – present Advisor, Undergraduate Integrative Neuroscience Majors

2016 – present Member, Cognitive PhD Program Committee

2016 – present Member, Curriculum Committee, Psychology Department
2019 Reviewer, Fordham Faculty Research Grant
2018 – 2019 Advisor, Freshman Core Curriculum
2018 – 2019 Member, Faculty Search Committee, Applied Developmental
2018 Reviewer, Undergraduate Research Journal
2018 Reviewer, Social Innovation Research Fellow

AD HOC REVIEWER

Behavioral Brain Research	Journal of Cognitive Neuroscience
Brain Research	Journal of Experimental Psychology: Learning, Memory and Cognition
Cerebral Cortex	Journal of Neuroscience
Cognition	Memory & Cognition
Cognitive, Affective, and Behavioral Neuroscience (CABN)	NeuroImage
Cognitive Neuroscience	Neuropsychologia
Cognitive Computational Neuroscience Conference (CCN)	Psychological Science
Cortex	Psychonomic Bulletin & Review
Emotion	Social Cognitive and Affective Neuroscience
European Science Foundation	Scientific Reports
Human Brain Mapping	United States – Israel Binational Science Foundation
