

# ALEXANDRA OCHOA COHEN, Ph.D.

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## EDUCATION AND TRAINING

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- June 2017 – **New York University**, New York, NY  
Present Postdoctoral Fellow  
*Advisor: Catherine Hartley, Ph.D.*
- Aug 2012 – **Weill Cornell Graduate School of Medical Sciences**, New York, NY  
April 2017 Ph.D., Neuroscience  
*Advisor: B.J. Casey, Ph.D.*
- Aug 2008 – **Duke University**, Durham, NC  
May 2012 B.S. in Neuroscience (with Distinction), minor in Psychology, *magna cum laude*

## HONORS AND AWARDS

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- 2019 International Convention of Psychological Science Travel Grant, Paris, France  
2018 Neurohackademy Fellow, University of Washington eScience Institute, Seattle, WA  
2017 National Science Foundation SBE Postdoctoral Research Fellowship  
2017 Gordon Research Conference Carl Storm Underrepresented Minority Fellowship, Amygdala Function in Emotion, Cognition & Disease  
2017 Tools of the Trade Workshop: Human Neuroimaging Methods and Best Practices, UCLA, Travel Award  
2016 Weill Cornell Frank & Blanche Mowrer Memorial Fellowship (\$12,000)  
2016 Weill Cornell Graduate School Student Service Award  
2015 American Psychological Association Dissertation Research Award Grant (\$1,000)  
2015 NIMH Summer Institute in Cognitive Neuroscience Fellowship, Santa Barbara, CA  
2014 National Science Foundation Graduate Research Fellowship Award  
2013 Phi Beta Kappa, Beta of North Carolina  
2012 Faculty Scholar Award Nominee, Duke University  
2012 Undergraduate Research Support Grant, Duke University (\$370)  
2011 Summer Neuroscience Program of Research Fellowship, Goldman Sachs Research Fellow, Duke University

## RESEARCH FUNDING

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- 2017 - NSF SBE Postdoctoral Research Fellowship Award  
2019 *Developmental trajectories of emotional learning and episodic memory*  
Role: Principal Investigator  
Total Awarded: \$138,000

### *Completed:*

- 2014 - NSF Graduate Research Fellowship Award  
2017 Role: Principal Investigator

## PUBLICATIONS

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(\*Mentee co-author)

Conley, M.I.\* , Dellarco, D.V.\* , Rubien-Thomas, E., **Cohen, A.O.**, Cervera, A., Tottenham, N., & Casey, B.J. (2018). The Racially Diverse Affective Expression (RADIATE) Face Stimulus Set. *Psychiatry Research*. doi: 10.1016/j.psychres.2018.04.066

Casey, B.J., Cannonier, T., Conley, M.I.°, **Cohen, A.O.**, Barch, D.M., Heitzeg, M.M., Soules, M.E., Teslovich, T., Dellarco, D.V.°, Garavan, H., Orr, C.A., Wager, T.D., Banich, M.T., Speer, N.K., Sutherland, M.T., Riedel, M.C., Dick, A.S., Bjork, J.M., Thomas, K.M., Charaani, B., Mejia, M.H., Hagler, D.J., Cornejo, D., Sicat, C.S., Harms, M., Dosenbach, N.U.F., Rosenberg, M., Earl, E., Bartsch, H., Watts, R., Polimeni, J.R., Kuperman, J.M., Fair, D.A., Dale, A.M., and the ABCD Imaging Acquisition Workgroup. (2018). The Adolescent Brain Cognitive Development (ABCD) Study: Imaging acquisition across 21 sites. *Developmental Cognitive Neuroscience*. pii: S1878-9293(17)30121-4. doi: 10.1016/j.dcn.2018.03.001

Breiner, K., Li, A., **Cohen, A.O.**, Steinberg, L., Bonnie, R.J., Scott, E.S., Taylor-Thompson, K., Rudolph, M.D., Chein, J., Richeson, J.A., Dellarco, D.V.°, Fair, D.A., Casey, B.J., Galvan, A. (2018). Combined effects of peer presence, social cues, and rewards on cognitive control in adolescents. *Developmental Psychobiology*. doi: 10.1002/dev.21599.

Casey, B.J., Heller, A.S., Gee, D.G., and **Cohen, A.O.** (2017). Development of the emotional brain. *Neuroscience Letters*. pii: S0304-3940(17)30964-3. doi: 10.1016/j.neulet.2017.11.055.

Dreyfuss, M.F.W., Riegel, M., Pedersen, G., **Cohen, A.O.**, Silverman, M.R.°, Dyke, J.P., Mayer, L.E.S., Walsh, B.T., Casey, B.J., and Broft, A.I. (2017). Patients with bulimia nervosa fail to show typical neurodevelopment of cognitive control under emotional influences. *Psychiatry Research: Neuroimaging*, 266, 59-65.

Rudolph, M.D., Miranda-Dominguez, O., **Cohen, A.O.**, Breiner, K., Steinberg, L., Bonnie, R.J., Scott, E.S., Taylor-Thompson, K.A., Chein, J., Fettich, K.C., Richeson, J.A., Dellarco, D.V.°, Galvan, A., Casey, B.J., and Fair, D.A. (2017). At risk of being risky: the relationship between “brain age” under emotional states and risky behavior. *Developmental Cognitive Neuroscience*, 24, 93-106.

**Cohen, A.O.** and Casey, B.J. (2017). The Neurobiology of Adolescent Self Control. In T. Egner (Ed.) *The Wiley Handbook of Cognitive Control*.

Heller, A.S., **Cohen, A.O.**, Dreyfuss, M., and Casey, B.J. (2016). Changes in cortico-subcortical and subcortico-subcortical connectivity impact cognitive control to emotional cues across development. *Social Cognitive and Affective Neuroscience*. pii: nsw097.

**Cohen, A.O.**, Bonnie, R.J., Taylor-Thompson, K., and Casey, B.J. (2016). When does a juvenile become an adult? Implications for law and policy. *Temple Law Review*, 88, 769-943.

Gee\*, D.G., Fetcho\*, R.N., Jing\*, D., Li\*, A., Glatt, C.E., Drysdale, A.T., **Cohen, A.O.**, Dellarco, D.V.°, Yang, R., Dale, A.M., Jernigan, T.L., Lee, F.S., Casey, B.J., and the PING Consortium. (2016). FAAH genotypic differences in frontolimbic circuitry and anxiety emerge during adolescence in human and mouse. *Proceedings of the National Academy of Sciences of the United States of America*, 113(16), 4500 – 4505.

**Cohen, A.O.**, Breiner, K., Steinberg, L., Bonnie, R.J., Scott, E.S., Taylor-Thompson, K.A., Rudolph, M.D., Chein, J., Richeson, J.A., Heller, A.S., Silverman, M.R., Dellarco, D.V.°, Fair, D.A., Galvan, A., and Casey, B.J. (2016). When is an adolescent an adult? Assessing cognitive control in emotional and non-emotional contexts. *Psychological Science*, 27(4), 549 – 562.

**Cohen, A.O.**, Dellarco, D.V.°, Breiner, K., Helion, C., Heller, A.S., Rahdar., A., Pedersen, G., Chein, J., Dyke, J.P., Galvan, A., and Casey, B.J. (2016). The impact of emotional states on cognitive control circuitry and function. *Journal of Cognitive Neuroscience*, 28(3), 446-459.

**Cohen, A.O.** and Casey, B.J. (2014). Rewiring juvenile justice: the intersection of developmental

neuroscience and legal policy. *Trends in Cognitive Sciences*, 18(2), 63 – 65.

Dreyfuss, M., Caudle, K., Drysdale, A.T., Johnston, N.E., **Cohen, A.O.**, Somerville, S.H., Galvan, A., Tottenham, N., Hare, T.A., and Casey, B.J. (2014). Teens impulsively react rather than retreat from threat. *Developmental Neuroscience*, 36(3-4), 220 – 7.

Harris, L.T., Lee, V.K., Capestany, B.H., and **Cohen, A.O.** (2014). Assigning economic value to people results in dehumanization brain response. *Journal of Neuroscience, Psychology, and Economics*, 7(3), 151 – 63.

Kim, K.Y., Stevens, M.V., Akter, M.H., Rusk, S.E., Huang, R.J., **Cohen, A.**, Noguchi, A., Springer, D., Bocharov, A.V., Eggerman, T.L., Suen, D., Youle, R.J., Amar, M., Remaley, A.T., and Sack, M.N. (2011). Parkin is a lipid-responsive regulator of fat uptake in mice and mutant human cells. *Journal of Clinical Investigation*, 121(9), 3701-12.

### **CONFERENCE PRESENTATIONS (selected)**

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(°Mentee co-author)

**Cohen, A.O.**, Matese, N.G.°, Filimontseva, A.°, Shen, X.°, & Hartley, C.A. (2018, November). *Aversive learning strengthens episodic memory in adolescents & adults*. Poster presentation at Society for Neuroscience annual meeting, San Diego, CA.

**Cohen, A.O.**, Matese, N.G.°, Filimontseva, A.°, Shen, X.°, & Hartley, C.A. (2018, August). *Aversive learning strengthens episodic memory in adolescents & adults*. Poster presentation at FLUX Congress annual meeting, Berlin, Germany.

Saragosa-Harris, N.M.°, Reneau, T.R., Villano, W.J., **Cohen, A.O.**, Heller, A.S., & Hartley, C.A. (2018, May). *Real-world exploration is associated with greater positive affect in adolescents and adults*. Poster presented at the Social and Affective Neuroscience Society, New York, NY.

**Cohen, A.O.**, Matese, N.G.°, Filimontseva, A.°, & Hartley, C.A. (2018, April). *Pavlovian category conditioning across adolescent humans*. Oral presentation at The International Conference on Learning and Memory, Huntington Beach, CA.

**Cohen, A.O.**, Sardar, H.°, Matese, N.G.°, Potter, T.C.S., & Hartley, C.A. (2017, August). *Appetitive conditioning and extinction across adolescence*. Poster presentation at the Gordon Research Conference on Amygdala Function in Emotion, Cognition & Disease biennial meeting, North Easton, MA.

**Cohen, A.O.**, Conley, M.I.°, Cannonier, T., Williams, M.D., Dellarco, D.V.°, and Casey, B.J. (2017, March). *The impact of emotional cues on short-term and long-term memory during adolescence*. Poster presentation at Social and Affective Neuroscience Society annual meeting, Los Angeles, CA.

**Cohen, A.O.**, Dellarco, D.V.°, Conley, M.I.°, and Casey, B.J. (2016, November). *The impact of emotional cues on short-term and long-term memory during adolescence*. Poster presentation at Society for Neuroscience annual meeting, San Diego, CA.

**Cohen, A.O.**, Breiner, K., Dellarco, D.°, Heller, A.S., Pedersen, G., Rudolph, M., Bonnie, R., Taylor-Thompson, K., Scott, E.S., Steinberg, L., Chein, J., Fair, D.A., Galván, A., and Casey, B.J. (2015, October). *When does an adolescent become an adult: The influence of emotion on the development of cognitive control*. Poster presentation at Society for Neuroscience annual meeting, Chicago, IL.

**Cohen, A.O.**, DiNapoli, S., Abdullah, A., Waters, E.M. (2015, October). *Engaging New York City Elementary School Students in Hands On Learning about the Brain during Classroom Visits for Brain*

Awareness Week. Poster presentation at Society for Neuroscience annual meeting, Chicago, IL.

Fettich, K., **Cohen, A.O.**, Breiner, K., Dellarco, D.°, Galvan, A., Casey, B.J., Steinberg, L., and Chien, J. (2015, October). *Network modularity increases as the “social brain” matures: a gray matter covariance approach*. Poster presentation at Society for Neuroscience annual meeting, Chicago, IL.

**Cohen, A.O.**, Breiner, K., Dellarco, D.°, Heller, A.S., Pedersen, G., Rudolph, M., Bonnie, R., Taylor-Thompson, K., Scott, E.S., Steinberg, L., Chein, J., Fair, D.A., Galván, A., and Casey, B.J. (2015, September). *When does an adolescent become an adult: The influence of emotion on the development of cognitive control*. Poster presentation at FLUX Congress annual meeting, Leiden, Netherlands.

Dellarco, D.V.°, **Cohen, A.O.**, Gregory, C.°, Glatt, C.E., Casey, B.J. (2015, September). *Genetic variation in Endocannabinoid signaling impacts frequency of cannabis use*. Poster presentation at FLUX Congress annual meeting, Leiden, Netherlands.

**Cohen, A.O.**, Breiner, K., Dellarco, D.°, Pedersen, G., Heller, A.S., Rudolph, M., Bonnie, R., Taylor-Thompson, K., Scott, E.S., Steinberg, L., Fair, D.A., Galván, A., and Casey, B.J. (2015, April). *Young adults react more like adolescents than older adults under transient and sustained states of emotion*. Poster presentation at Social and Affective Neuroscience Society annual meeting, Boston, MA.

**Cohen, A.O.** and Harris, L.T. (2012, April). *Rehumanizing the homeless: social interaction and the social cognition response*. Poster presented at Social and Affective Neuroscience Society annual meeting, New York, NY.

## TEACHING AND OUTREACH

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Aug 2018 – Present Neuroscience Mentor, BrainWaves: An EEG-based neuroscience curriculum and teacher training program for high schools  
**New York University**, New York, NY

May 2017 – Present Member, Project Leader  
Project leader responsibilities include: lead a team to create “knowledge briefs” on specific scientific topics for partner organizations  
**Scientist Action and Advocacy Network (ScAAN)**, New York, NY

Jan 2017 – Present Co-Chair, Brain Awareness Week (BAW) 2017, 2018; Event Coordinator, Volunteer  
BAW responsibilities include: Point of contact for event coordinators and partner organizations/sites (20+ events) throughout NYC; Oversee volunteer recruitment (100+ volunteers) for events, volunteer assignment to events, social media communication about events, website listing about events, and more  
**brainNY, the Greater NYC Chapter of the Society for Neuroscience**, New York, NY

Nov 2018 Article: Equation Invasion! How Math can Explain How the Brain Learns  
**Frontiers for Young Minds**,  
<https://kids.frontiersin.org/article/10.3389/frym.2018.00065>

June 2018 Neuroscientist’s Apprentice Event Leader  
**World Science Festival 2018**, New York, NY

April 2018 Panelist, Rutgers STEAM Careers in S.T.E.A.M Panel  
**Rutgers University**, New Brunswick, NJ

Mar 2018 Guest Lecturer, Special Topics in Neural Science, *The Emotional Brain*

**New York University**, New York, NY

- Sept 2017 – Adjunct Instructor & Guest Lecturer, College Core Curriculum, *Brain & Behavior*  
Dec 2017 **New York University**, New York, NY
- Oct 2017 Guest Speaker  
**World Science Festival Mini Brain Fair**, New York, NY
- May 2017 Keynote Speaker  
**Students Modelling A Research Topic (SMART) Symposium**, New York NY
- Sept 2013 – Co-Founder & Outreach Chair, Tri-Institutional Outreach Committee  
May 2016 Initiatives include: Creation of Tri-I Volunteer Network, Mentorship program with New York Hall of Science, Children’s Health Council Family Science Day, Brain Awareness Activities, Science Days, and more  
**Weill Cornell- Sloan Kettering- Rockefeller**, New York, NY
- Jan 2016 Progress in Neuroscience Seminar Speaker  
**Weill Cornell Graduate School of Medical Sciences**, New York, NY
- Sept 2013 – Teacher Assistant, *From Neuron to Brain*  
Mar 2015 **Weill Cornell Graduate School of Medical Sciences**, New York, NY
- Jan 2010 – Math Laboratory Teacher Assistant, *Laboratory Calculus I & II*  
May 2012 **Duke University**, Durham, NC
- Jan 2009 – Volunteer, Females Excelling More in Math, Engineering, and Science  
May 2012 **Duke University**, Durham, NC

**INVITED TALKS**

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- 2018 Psychology Brownbag Series, Rutgers University-Camden, Camden, NJ  
*Effects of brief and prolonged emotion on cognitive and neural processes across development*
- 2018 New York State Unified Court System Continuing Legal Education, New York, NY  
*Implications of Adolescent Brain Development & How it Impacts Behavior*
- 2018 Judicial Summer Seminar Series, Rye Brook, NY  
*Implications of Adolescent Brain Development & How it Impacts Behavior*
- 2017 Crossroads Juvenile Center, Brooklyn, NY  
*When is an adolescent an adult? Implications for law & policy*
- 2017 Fundamental of Adolescent Brain Lab & Holmes Lab joint lab meeting, Yale University, New Haven, CT  
*Effects of brief and prolonged emotion on cognitive and neural processes across development*
- 2016 Stanford Memory Lab, Stanford University, Stanford, CA  
*Effects of brief and prolonged emotion on cognitive and neural processes across development*
- 2016 NeuroLaw Symposium at FLUX Congress annual meeting, St. Louis, MO  
*When is an adolescent an adult? Assessing influences of emotion on cognitive and neural processes across development.*

- 2016 MacArthur Law & Neuroscience Network Meeting, San Diego, CA  
*When is an adolescent an adult? Assessing influences of emotion on cognitive and neural processes across development.*
- 2015 Workshop presentation at American Association for the Advancement of Science annual meeting, San Jose, CA  
*Leveraging outreach: A student perspective*

## MENTORING

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### New York University

Masters Students: Nicholas Matese, Karen Shen, Morgan Glover  
Post-Baccalaureate Research Assistant: Natalie Saragosa-Harris  
Undergraduate Honors Student: Allison Neeson, Haniyyah Sardar  
Undergraduate Research Assistant: Asia Filimontseva

### Weill Cornell Medicine

Post-Baccalaureate Research Assistants: Danielle Dellarco, May Conley, Melanie Silverman  
Rotating Graduate Students: Charlotte Bavley, Hillary Raab  
Undergraduate Research Assistant: Camille Gregory

## ADDITIONAL RESEARCH EXPERIENCE

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- Sept 2012 – Rotating Graduate Student  
April 2013 **Department of Pediatrics, Weill Cornell Medical College**, New York, NY  
*Principal Investigators: Barry Kosofsky, M.D, Ph.D. & Anjali Rajadhyaksha, Ph.D.*
- Aug 2010 – Research Assistant  
May 2012 **Boundaries of Social Cognition Lab, Duke University**, Durham, NC  
*Principal Investigator: Lasana T. Harris, Ph.D.*
- May 2010 – Summer Intramural Research Award Fellow  
Aug 2010 **Translational Medicine Branch, National Heart Lung and Blood Institute, The National Institutes of Health**, Bethesda, MD  
*Principal Investigator: Michael N. Sack, M.D., Ph.D.*
- Aug 2009 – Research Assistant  
May 2010 **Nicolelis Lab, Duke University**, Durham, NC  
*Principal Investigator: Miguel Nicolelis, M.D., Ph.D. w/ Craig Roberts, Ph.D.*

## SPECIALIZED TRAINING COURSES & WORKSHOPS

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- 2018 Neurohackademy, University of Washington eScience Institute, Seattle, WA  
2018 Human Connectome Project Course, University of Oxford  
2018 SOBP Computational Psychiatry Satellite: Reinforcement Learning  
2018 Software Carpentry Workshop (Unix Shell, Python, Git, SQL), NYU  
2017 Reproducible Neuroimaging Training Workshop, Society for Neuroscience, Washington, DC  
2017 At the Boundary of Adolescence and Young Adulthood: The Next Generation of Criminal Justice Reform, Washington, DC  
2017 Tools of the Trade Workshop: Human Neuroimaging Methods and Best Practices, UCLA  
2015 NIMH Summer Institute in Cognitive Neuroscience Fellowship, UCSB

## PROFESSIONAL SERVICE AND ACTIVITIES

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Ad Hoc Reviewing: *Frontiers in Human Neuroscience*, *Journal of Research on Adolescence*, *Journal of Neuroscience* (w/ advisors), *NeuroImage*, *Neuroscience Letters*, *Schizophrenia Bulletin* (w/ advisor), *Social Cognitive and Affective Neuroscience*

Flux Society Trainee Committee (2018-2019)

Co-Director of The Mortimer D. Sackler, M.D. Summer Institute, Sackler Institute for Developmental Psychobiology, Weill Cornell Medical College (2016)

Sackler Seminar Series Coordinator, Sackler Institute for Developmental Psychobiology, Weill Cornell Medical College (2014-2015)

**PROFESSIONAL MEMBERSHIPS**

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American Psychological Association

Association for Psychological Science

Cognitive Neuroscience Society

Flux: The Society for Developmental Cognitive Neuroscience

Social and Affective Neuroscience Society

Society for Neuroscience