Benjamin M. Silver

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EDUCATION

2019-Columbia University, Ph.D. in Psychology

Advisor: Kevin Ochsner, Ph.D.

Secondary advisor: Chris Baldassano, Ph.D.

2019-2021 Columbia University, M.S. in Psychology

Advisor: Kevin Ochsner, Ph.D.

Secondary advisor: Chris Baldassano, Ph.D.

2013-2017 Brown University, Honors Sc.B in Cognitive Neuroscience, 3.95 GPA

Focus in Learning and Memory

Honors thesis: The relationship between pretend play and working memory in

preschool aged children Advisor: Dima Amso, Ph.D.

AWARDS

2023	Graduate School of Arts and Sciences Conference Matching Travel Award
2023	Arts and Sciences Graduate Council Student Travel Grant
2022	Fellowship, Kavli Summer Institute in Cognitive Neuroscience
2022	Seed Grant, Columbia University Zuckerman Institute
2021	Teaching Observation Fellowship, Columbia University
2021	Neurohackademy participant
2020	Psychology Department Lead Teaching Fellowship, Columbia University
2017	Member, Sigma Xi
2016	Undergraduate Teaching and Research Award, Brown University
2015	BrownConnect LINK Award, Brown University
2013	Semifinalist, INTEL Science Talent Search Competition

RESEARCH EXPERIENCE

2019-Graduate Student Research Fellow

SCAN Lab, Psychology Department, Columbia University

Advisor: Kevin Ochsner, Ph.D.

2017-2019 Research Coordinator

Jones Lab, Sackler Institute for Developmental Psychobiology, Weill Cornell

Medical College

Advisor: Rebecca M. Jones, Ph.D.; Jonathan D. Power, M.D., Ph.D.

2015-2017 Undergraduate Researcher

Developmental Cognitive Neuroscience Lab, Cognitive, Linguistic & Psychological

Sciences Department, Brown University

Advisor: Dima Amso, Ph.D.

PUBLICATIONS

Manuscripts in prep/under review

Silver, B.M., Ochsner, K.N. (under review). How did the perceived morality of public figures change during #MeToo?

Silver, B.M., Yu, W., Davachi, L., Ochsner, K.N. (in prep). What are my friends really like? Motivated perceptions after completing a virtual escape room.

Published

Abstracts from the 2022 Annual Meeting of the Society for Affective Science. *Affec Sci* (2023). https://doi.org/10.1007/s42761-022-00175-w

Bos, D.J., Barnes, E.D., **Silver, B.M.,** Ajodan, E.L., Clark-Whitney, E., Scult, M.A. Power, J.D., Jones, R.M. (2021). An effort-based social feedback paradigm reveals aversion to popularity in socially anxious participants and increased motivation in adolescents. *PLOS ONE*. DOI: https://doi.org/10.1371/journal.pone.0249326

Lynch, C.J., Voss, H., **Silver, B.M.**, Power, J.D. (2021). On measuring head motion and effects of headmolds during fMRI. *Neuroimage*. DOI: https://doi.org/10.1016/j.neuroimage.2020.117494

Silver, B.M., Conte, M.M., Victor, J.D., Jones, R.M. (2020). Visual search for circumscribed interests in autism is similar to that of neurotypical individuals. *Frontiers in Psychology.* DOI: https://doi.org/10.3389/fpsyg.2020.582074

Lynch, C.J., **Silver, B.M.**, Dubin, M.J., Martin, A., Jones, R.M., Power, J.D. (2020). A prevalent, sex-biased respiratory pattern influences functional connectivity MRI in young adults. *Nature Communications*. DOI: https://doi-org.ezproxy.cul.columbia.edu/10.1038/s41467-020-18974-9

Bos, D.J., **Silver, B.M.**, Barnes, E., Ajodan, E.L., Silverman, M.R., Clark-Whitney, E., Tarpey, T., Jones, R.M. (2019). Adolescent-specific motivation deficits in autism versus typical development. *Journal of Autism and Developmental Disorders*. DOI: https://doi.org/10.1007/s10803-019-04258-9

Power, J.D., Lynch, C. J., Dubin, M.J., **Silver, B.M.**, Martin, A., Jones, R.M. (2019). Characteristics of respiratory measures in young adults scanned at rest, including systematic changes and "missed" deep breaths. *Neuroimage*. DOI: https://doi.org/10.1016/j.neuroimage.2019.116234

Power, J.D., Lynch, C.J., **Silver, B.M.**, Dubin, M.J., Martin, A., Jones, R.M. (2019). Distinctions among real and apparent respiratory motions in human fMRI data. *Neuroimage*. DOI: https://doi.org/10.1016/j.neuroimage.2019.116041

Bos, D.J., Silverman, M.R., Ajodan, E.L., Martin, C., **Silver, B.M.**, Brouwer, G., Di Martino, A., Jones, R.M. (2019). Rigidity coincides with reduced cognitive control to affective cues in children with autism. *Journal of Abnormal Psychology*. Preprint DOI: 10.31234/osf.io/faz45

Power, J.D., **Silver, B.M.**, Silverman, M.R., Ajodan, E.L., Bos, D.J., Jones, R.M. (2019). Customized head molds reduce motion during resting state fMRI. *Neuroimage*. DOI: doi.org/10.1016/j.neuroimage.2019.01.016

PRESENTATIONS

First author	
2023	Silver, B.M., Baldassano, C., Davachi, L., Ochsner, K.N. Do you like me back?
	Motivated perceptions and cognitive effort for potential romantic partners. Poster
	presented at the Social and Affective Neuroscience Society, Santa Barbara, CA

- Silver, B.M., Yu, W., Davachi, L., Ochsner, K.N. What are my friends really like? Motivated perceptions after completing a virtual escape room. Poster presented at the Society for Affective Science. Long Beach, CA.
- Silver, B.M., Baldassano, C., Davachi, L., Ochsner, K.N. *Romantic remembering:*Social information determines individualized reward value and motivates memory.
 Poster presented at the Social and Affective Neuroscience Society. Online.
- Silver, B.M., Ochsner, K.N. *Morality and #MeToo: Motivated impression updating on Twitter.* Flash talk presented at the Society for Affective Science; Online.
 - Denoted as "High-ranking abstract"; invited to submit abstract as conference publication
- Silver, B.M., Li, D.H., Mayers, A., Croxson, P.L. *Neuroscience education from home: Challenges and opportunities.* Interactive talk to be presented at the Neuromatch conference; Online.
- Silver, B.M., Lynch, C.J., Clark-Whitney, E., Barnes, E., Power, J.D., Jones, R.M. *Longitudinal resting-state fMRI using individual-specific analyses in autism.*Poster presented at the FLUX Congress; New York, NY.
- Silver, B.M., Barnes, E., Clark-Whitney, E., Conte, M.M., Victor, J.D., Jones, R.M. *Developing a novel visual search task personalized for individual interests.*Poster presented at the INSAR Conference; Montreal, Canada.
- Silver, B.M., Bos, D.J., Ajodan, E., Silverman, M., Power, J.D., Jones, R.M. *Preferred interests interfere with self-control in autism*; Poster presented at The Social and Affective Neuroscience Society Conference; Brooklyn, NY.
- 2017 **Silver, B.M.** The relationship between pretend play and working memory in preschool aged children; Oral undergraduate honors thesis presentation; Providence, RI.

Middle author

- Li, D.H., Silver, B.M., Patel, P., Remole, K.E., Imbimbo, J., Mayers, A.M., Shohamy, D., Croxson, P.L. Advancing high school research exposure through BRAINYAC: Brain Research Apprenticeships In New York At Columbia. Poster presented at the Society for Neuroscience Annual Meeting; Online
- Croxson, P.L., Li, D.H., Silver, B.M., Patel, P., Remole, K.E., Imbimbo, J.,

- Mayers, A., Shohamy, D. Advancing high school research exposure through Brain Research Apprenticeships in New York at Columbia (BRAINYAC). Poster presented at BRAIN Initiative Investigators Meeting; Online
- Barnes, E., **Silver, B.M.**, Clark-Whitney, E., Ajodan, E.L., Scult, M., Jones, R.M. *Studying teen choices on social media: validation of a novel social decision–making task.* Poster presented at the FLUX Congress; New York, NY.
- Jones, R.M., Barnes, E., Ajodan, E.L., **Silver, B.M.**, Clark-Whitney, E., Scult, M. *Behavioral and neural correlates of adolescent-specific social motivations: Implications for psychosocial treatments.* Talk presented at the Anxiety and Depression Conference; Chicago, IL.
- Bos. D.J., Ajodan, E.L., Silverman, M.R., **Silver, B.M.**, Martin, C., Di Martino, A., Jones, R.M. *Similarities and differences in cognitive control to motivating cues in autism and (co-morbid) ADHD.* Poster presented at the INSAR Conference; Montreal, Canada.
- Bos. D.J., Tarpey, T., **Silver, B.M.**, Ajodan, E.L., Silverman, M.R., Martin, C., Jones, R.M. *Absence of adolescent–specific sensitivity to motivating cues in Autism.* Poster presented at the INSAR Conference; Montreal, Canada.
- Bos. D.J., Silverman, M.R., Ajodan, E.L., Martin, C., Silver, B.M., Di Martino, A., Jones, R.M. *Cognitive control to affective cues across neurodevelopmental disorders;* Poster presented at the Eunethydis Conference; Edinburgh, Scotland.
- Ajodan, E., **Silver, B.M.**, Silverman, M., Southerland, A., Chanda, K., Stubbs, E.A., Lord, C., Rehg, J., Rozga, A., Jones, R.M. *Gaze patterns during parent-child versus clinician-child interactions;* Poster presented at the INSAR Conference; Rotterdam, Netherlands.
- Bos, D.J., Silverman, M., Ajodan, E., Martin, C., **Silver, B.M.**, Di Martino, A., Jones, R.M. *Reconciling the co-occurrence of impulsivity and insistence on sameness in ASD;* Talk presented at the INSAR Conference; Rotterdam, Netherlands.
- Freier, L., Gunther, K., Silver, B.M., Badre, D., Amso, D. *3- to 7-year-olds' use of working memory gating strategies in a naturalistic task;* Poster presented at the Society for Research in Child Development Conference; Austin, TX.

RELEVANT RESEARCH SKILLS

- Neuroimaging analysis NIPY suite, FSL, SPM, AFNI, Freesurfer, Connectome Workbench
- Data analysis/organization Python, R, Matlab, bash/tcsh, SPSS, Excel, REDCap
- Experimental design PsychoPy3, PsychToolbox, Qualtrics, E-Prime
- Video and gaze coding Interact, Datavyu, Yarbus, Boris
- Clinical assessments Autism Diagnostic Observation Schedule (reliable on Modules 3, 4),
 Wechsler Adult Intelligence Scale–IV, Differential Ability Scales–II, Mullen, Woodcock–Johnson–III, Brief Observation of Social Communication Change

TEACHING AND MENTORING EXPERIENCE

2022-2023	 Teaching Consultant - Center for Teaching and Learning Observe and provide feedback to graduate students across the university about their teaching
2022, Fall	Teaching Assistant, Section Instructor - Research Methods: Social Cognition and Emotion
2022, Spring	Teaching Assistant, Section Instructor - Research Methods: Social Cognition and Emotion
2021	Instructor, Summer Internship Program in Psychological Science • Taught undergraduate students in R programming, the scientific method, and science communication
2021	Teaching Assistant, Section Instructor - Research Methods: Social/Personality
2020	Assistant Instructor - Columbia Psychology coding bootcamp
2020	Teaching Assistant, Guest Lecturer - Social Psychology • Guest lecture: Attitudes and Consistency
2020	Teaching Assistant, Guest Lecturer - Thinking and Decision Making • Guest lecture: The Cognitive Neuroscience of Decision Making

Mentored students

2023	Duygu Cakmur: Undergrad research assistant
2022	Brena Bessa: Post-bac research assistant
2022-	Jessie Lin: Undergrad research assistant, summer research project
2021-	Arielle Clark: Undergrad research assistant, senior honors thesis project
2021-2022	Jana Jaran: Undergrad research assistant, senior honors thesis project
2021-2022	Monica Boose: Undergrad research assistant
2021	Charlotte Cassidy: Post-bac research assistant, summer research project

GENERAL AUDIENCE PUBLICATIONS

SERVICE AND OUTREACH EXPERIENCE

Volunteer peer reviewer: Autism Research, Social Cognitive and Affective Neuroscience Society member: Social Affective Neuroscience Society, Society for Affective Science

2023 Instructor, Genspace

 Taught a two-day workshop for the general public entitled "Neurohacking 101: Analyzing and visualizing brain networks"

2023 Instructor, Double Discovery Center

[&]quot;Something Magical" Muse Magazine (May/June 2023 issue)

[&]quot;Laura Lewis, PhD" Scientist on the Subway (April 10, 2023)

[&]quot;Sarah Woolley, Neuroscientist" Muse Magazine (November/December 2022 issue)

[&]quot;Dr. Uraina Clark" Scientist on the Subway (March 21, 2022)

[&]quot;Anita Burgos, PhD" Scientist on the Subway (September 13, 2021)

[&]quot;Shivon Robinson, PhD" Scientist on the Subway (November 30, 2020)

	school students in a college prep program
2022-2023	 Coordinator, BraiNY Bunch Organize and facilitate a virtual journal club for high school and undergraduate students from around the world
2020-2022	 Instructor, Brain Research Apprenticeships in New York at Columbia Taught neuroscience to high school students, helped build course curriculum, mentored students during summer internships Served as Senior Instructor 2021-2022
2020-2023	 Writer/Outreach coordinator, Scientist on the Subway (SciSub) Interview neuroscientists from underrepresented backgrounds, write articles Develop curricula based on SciSub articles, coordinate partnerships with science education programs
2020-2022	Psychology Department Monday Seminar Coordinator • Organized weekly seminar series for department with both external and internal speakers, as well as panels
2021-2023	 Organizer/Instructor, Summer Internship Program in Psychological Science Internship program for undergraduates to learn psychology research skills and complete an internship Part of core team running the program; taught coding and professional development workshops
2021	Mentor, Mindhive • Mentored high school students on citizen science projects
2020	 Instructor, Columbia Volunteer Tutoring Corps Summer Camp Designed and taught course about the science of cooking to middle and high school students
2019	Instructor, Columbia University Neuroscience Outreach Multi-Visit Program • Taught neuroscience to middle school students at Renaissance School of the Arts and helped them prepare for a final presentation
2018	Summer Program Co-Director, The Sackler Institute, Weill Cornell Medical College • Assisted in creation and management of inaugural summer internship program for high school and college students
2017-2018	Instructor, Mad Science • Performed and taught as a "Mad Scientist" for children's birthday parties
2014-2017	 Science Center Student Worker, Brown University Created, wrote, and hosted a web series about science research at Brown (https://bit.ly/20zxdke) Coordinated "Science Underground" science café program
2015–2017	 Brown Brain Bee High School Coordinator, Brown University Taught basic neuroscience to high school students, recruited high schools to participate, mentored other student teachers

• Created and taught a 7-week course on science communication for high

2016–2017 Tour Program Co-Coordinator, Brown University

• Oversaw 100 tour guides, ran training sessions, gave tours and information sessions to visiting families

2015 Summer Intern, Liberty Science Center

• Led presentations on museum floor, assistant taught summer camps, explained exhibits to museum guests