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.

2021-2023 Columbia University, M.Phil. 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 AND FUNDING

Research

2024	Incite Doctoral Dissertation Grant
2024	Psychology Department Graduate Travel Award
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	Neurohackademy participant
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

Teaching/outreach

2024	Columbia Graduate School of Arts and Sciences Teaching Scholars Fellowship
2023	APS Teaching Fund Small Grant
2023	POD Network GPPD Career Development Grant
2023	Fellowship, ComSciCon Flagship Workshop
2021	Teaching Observation Fellowship, Columbia University
2020	Lead Teaching Fellowship, Columbia University

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., Yu, W., Davachi, L., Ochsner, K.N. (under review). What are my friends really like? How we change our perceptions of familiar others' traits and actions. https://doi.org/10.31234/osf.io/n75xc

Silver, B.M., Meyer, M., Davachi, L., Ochsner, K.N. (in revisions). Changes in self-views in response to the 2020 U.S. presidential election.

https://doi.org/10.31234/osf.io/pq4k5

Published

Silver, B.M., Ochsner, K.N. (in press). Changes in online moral discourse about public figures during #MeToo. *Affective Science*. https://doi.org/10.31234/osf.io/yr56t

Top-rated 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*.

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*. 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.* 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*. https://doi.org/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*. 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*. 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*. 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*. https://doi.org/10.1037/abn0000423
- 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.org/10.1016/j.neuroimage.2019.01.016

PRESENTATIONS

Talks and workshops

- 2024 Panelist, Zuckerman Institute Neuroethics Teacher Institute
- 2024 Invited guest speaker, Social Learning and Choice Lab (Leor Hackel) lab meeting
- 2024 Co-facilitator, Teaching observation workshop, Center for Teaching and Learning
- 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 presented at the Neuromatch conference; Online.
- 2017 Silver, B.M. *The relationship between pretend play and working memory in preschool aged children;* Oral undergraduate honors thesis presentation; Providence, RI.

Posters: First author

- Silver, B.M., Baldassano, C., Davachi, L., Ochsner, K.N. *Always on my mind:*The role of the dmPFC in responding to social feedback from potential romantic partners. Poster presented at the Social and Affective Neuroscience Society.

 Toronto, CA.
- 2024 Silver, B.M., Corbani, F., Muskin, P.R., Davachi, L., Ochsner, K.N. You are

- enjoying this poster: Investigating hypnosis as a tool for emotion regulation during fMRI. Poster presented at the Society for Affective Science. New Orleans, LA.
- 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., 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.

Posters: Middle author

- Li, D.H., Gumnit, M., Shah, A., Bravo, I., **Silver, B.M.,** Patel, P., Miller, M., Remole, K.E., Imbimbo, J., Shohamy, D., Croxson, P.L., Mayers, A.M. *Brain Research Apprenticeships In New York At Columbia (BRAINYAC) strengthens STEM identity and self-efficacy in high school students through coursework and mentored research.* Poster presented at the Society for Neuroscience Annual Meeting; Washington, D.C.
- 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

Undergraduate courses

- 2024, Fall Instructor of record, course developer Psychology and the Internet
- 2024, Spring Teaching assistant, guest lecturer Social Neuroscience
 - Guest lecture: Social neuroscience and social media
- 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. Spring	Teaching assistant	, section instructor - Rese	arch Methods:	Social/Personality

2020, Summer Teaching assistant, guest lecturer - Social Psychology

Guest lecture: Attitudes and Consistency

2020, Spring Teaching assistant, guest lecturer - Thinking and Decision Making

Guest lecture: The Cognitive Neuroscience of Decision Making

Other

2023 Participant, Center for Teaching and Learning Innovative Course Design Workshop

- Five-week workshop devoted to creating and designing an original undergraduate course with innovative elements
- Designed a course entitled "Psychology and the Internet"

2022-2024 Teaching Consultant - Center for Teaching and Learning

- Conduct in-class observations, mid-course reviews, and practice teaching sessions for graduate student instructors across the university
- Consult with graduate students on teaching materials and teaching statements for the academic job market

2021 Instructor, Summer Internship Program in Psychological Science

 Taught undergraduate students in R programming, the scientific method, and science communication

2020 Assistant Instructor – Columbia Psychology coding bootcamp

Mentored students

2021-2024	Arielle Clark: Senior honors thesis project, undergrad research assistant
2022-2023	Jessie Lin: Undergrad research assistant, summer research project
2023	Duygu Cakmur: Undergrad research assistant
2022	Brena Bessa: Post-bac research assistant
2021-2022	Jana Jaran: Senior honors thesis project, undergrad research assistant
2021-2022	Monica Boose: Undergrad research assistant
2021	Charlotte Cassidy: Post-bac research assistant, summer research project

GENERAL AUDIENCE PUBLICATIONS

[&]quot;Elodie Freyman, Primatologist" *Muse Magazine* (April 2024 issue)

[&]quot;Facebook and campus mental health" Center for Brain Mind and Society (September 26, 2023)

[&]quot;Executive Functioning" Center for Brain Mind and Society (September 26, 2023)

[&]quot;Is mind reading possible?" *Muse Magazine* (September 2023 issue)

[&]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)

SERVICE AND OUTREACH EXPERIENCE

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

2024 Mentor, BioBus

- Advised high school students on a science research project during weekly after-school sessions
- Provided guidance on research questions, procedures, data analysis, and presentations

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

• Created and taught a 7-week course on science communication for high school students in a college prep program

2022-2023 Coordinator, BraiNY Bunch

 Organized and facilitated 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)

- Interviewed neuroscientists from underrepresented backgrounds, write articles
- Developed 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 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

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

2017-2018 Instructor, Mad Science

• Performed and taught as a "Mad Scientist" for children's birthday parties

- Science Center Student Worker, Brown University

 Created, wrote, and hosted a web series about science research at Brown (https://bit.ly/2Ozxdke)
 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

 2016–2017 Tour Program Co-Coordinator, Brown University

 Oversaw 100 tour guides, ran training sessions, gave tours and information sessions to visiting families
- Summer Intern, Liberty Science Center
 Led presentations on museum floor, assistant taught summer camps, explained exhibits to museum guests