**Curriculum Vitae**

**Karin Schon, PhD**
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Department of Anatomy & Neurobiology
Boston University Aram V. Chobanian & Edward Avedisian School of Medicine
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https://profiles.bu.edu/Karin.Schon/
August 3rd, 2023

**Academic Training:**

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| 5/1998 BA/MA | Universität Hamburg, Hamburg, Germany; Psychology |
| 3/2005 PhD | Boston University, Boston, MA; Psychological and Brain Sciences |

**Additional Training:**

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| 4/2005-3/2009 | Research Associate (Post Doc) in Cognitive Neuroscience, Boston University, Department of Psychological and Brain Sciences, Boston, MA |
| 4/2009-8/2010 | Senior Postdoctoral Associate (Post Doc) in Cognitive Neuroscience, Department of Psychological and Brain Sciences, Boston University, Boston, MA |
| 9/2010-4/2013 | Principal Investigator (Post Doc) in Cognitive Neuroscience of Aging and Exercise Physiology (K99/R00 Pathway to Independence Award) |

**Primary Academic Appointment:**

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| 5/2013-7/2023 | Assistant Professor, Department of Anatomy & Neurobiology, Boston University Chobanian & Avedisian School of Medicine, Boston, MA, USA |
| 8/2023- | Associate Professor, Department of Anatomy & Neurobiology, Boston University Chobanian & Avedisian School of Medicine, Boston, MA, USA |

**Secondary Academic Appointments and Joint Programmatic Appointments and Affiliations:**

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|---|---|
| 9/2013- | Assistant Professor of Psychological and Brain Sciences, Joint Programmatic Appointment with Dept. of Psychological and Brain Sciences and Center for Memory and Brain, Boston University, Boston, MA |
| 6/2014- | Assistant Professor of Neuroscience, Joint Programmatic Appointment with Undergraduate Program in Neuroscience, Boston University, Boston, MA |
| 6/2015- | Investigator, Clinical Research Core, Alzheimer's Disease Center (Faculty Member since 4/2013), Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 11/2020- | Faculty Affiliate, Center for Antiracist Research, Boston University, Boston, MA |
| 11/2022- | Assistant Dean for Diversity and Inclusion, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |

**Honors:**

**Institutional**

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| 1995 | Travel Scholarship, Emmy and Alfred B. Steffens Memorial Fund, German Academic Exchange Service (DAAD), Universität Hamburg, Hamburg, Germany |
| 2002 | Clara Mayo Memorial Fellowship, Department of Psychological and Brain Sciences, Boston University, Boston, MA |
| 2005 | Felicia Sorembe Lambros Prize for Research, Boston University, Boston MA |
| 2005 | Kavita Jain Dissertation Award, Boston University, Boston MA |
| 2015 | Junior Faculty Spivack Scholar 2015, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |

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| 2015 | UROP Outstanding Mentor Award, Undergraduate Research Opportunities Program, Boston University, Boston, MA (for Summer 2015 UROP mentorship of BU Undergraduate Program in Neuroscience students) |
| 2021 | Russek Day 2021 Faculty Award (for research and service related to diversity, equity, inclusion and justice), 27th Annual Henry I. Russek Student Achievement Day, Graduate Medical Sciences, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 2022 | Public Impact Scholar, Initiative of Cities, Boston University, Boston, MA |

**National**

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| 7/2002 | Summer Workshop in fMRI Informatics, Dartmouth College, fellowship award |
| 2010 | NIH Pathway to Independence Award (K99/R00) |
| 2013 | CCAD Junior Investigator, Charleston Conference on Alzheimer's Disease (CCAD), Charleston, SC |
| 2019-2020 | Scholar, Advanced Research Institute (ARI) in Mental Health and Aging, 2019 cohort |

**Departmental, School and University Committees:**

***Boston University Chobanian & Avedisian School of Medicine, Boston, MA***

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|---|---|
| 11/2015-9/2020 | Member, Core Committee, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 3/2016- | Member, Task Force on Diversity and Inclusion, Dept. of Anatomy & Neurobiology, Boston University Chobanian & Avedisian School of Medicine, Boston, MA (renamed Diversity, Equity, Inclusion, and Justice Committee 6/2020) |
| 6/2016-9/2020 | Member, Center for Biomedical Imaging Oversight Committee, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 10/2016- | Member, CityLab and Urban Squash NIH SEPA Steering Committee |
| 6/2020-5/2023 | Chair, Diversity, Equity, Inclusion, and Justice Committee, Department of Anatomy & Neurobiology, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 6/2020-9/2022 | Faculty Chair, Diversity, Equity, Inclusion, and Justice Committee, Graduate Program for Neuroscience, Boston University, Boston, MA |
| 9/2020- | Member, GMS Diversity Steering Group, Graduate Medical Sciences, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 12/2020-3/2023 | Member, Awards Committee, Graduate Medical Sciences, Boston University Chobanian & Avedisian School of Medicine, Boston, MA |
| 4/2021- | Representative for Graduate Medical Sciences, GCT – The Glossary for Transformative Cultural Change committee, Boston University Chobanian & Avedisian School of Medicine, MA |

***Boston University Wide, Boston, MA***

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| 9/2014-12/2017 | Faculty member, Faculty Advisory Committee for the Undergraduate Research Opportunities Program, Boston University, Boston, MA |
| 9/2020- | Member, Faculty Council and University Council, Boston University, Boston, MA |
| 9/2020- | Member, Faculty Council Equity & Inclusion Committee, Boston University, Boston, MA |
| 2/2021- | Member, CSAG – Community Safety Advisory Group, Boston University, Boston, MA (Faculty Council Representative) |
| 9/2022- | Chair, Faculty Council Equity & Inclusion Committee, Boston University, Boston, MA |

**Teaching Experience and Responsibilities (Boston University Chobanian & Avedisian School**

**of Medicine):**

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| 1/2015-5/2015 | Course Director and Instructor (jointly with Dr. Mark Moss) for GMS AN811: Cognitive Neuroscience, 4cr |
| 1/2015-5/2015 | Course Director and Instructor for GMS IM630: Methods of Functional Imaging of the Brain, 2cr, enrollment: 22 |
| 9/2015-12/2015 | Course Director, AN801 Journal Club for Anatomy & Neurobiology graduate students: "Teaching an old brain new tricks: from mouse models of neurogenesis to human neuroimaging of brain plasticity", enrollment: 8 |
| 1/2016-5/2016 | Course Director and Instructor for GMS IM630: Methods of Functional Imaging of the Brain, 2cr, enrollment: 9 |
| 1/2017-5/2017 | Course Director and Instructor for GMS IM630: Methods of Functional Imaging of the Brain, 2cr, enrollment: 17 |
| 1/2018-5/2018 | Course Director and Instructor for GMS IM630: Methods of Functional Imaging of the Brain, 2cr, enrollment: 14 |
| 1/2018-5/2018 | Course Co-Director and Co-Instructor (Co-Director and Co-Instructor: Dr. Doug Rosene) for GMS AN 702: Neurobiology of Learning and Memory, 2cr, enrollment: 13 |
| 9/2018-12/2018 | Course Director, AN 801 Journal Club for Anatomy & Neurobiology graduate students: "Neuroscience and Social Justice: What Neuroscience Can Teach Us About Current Social Justice Issues", enrollment: 10 |
| 1/2019-5/2019 | Course Director and Instructor for GMS IM630: Methods of Functional Imaging of the Brain, 2cr, enrollment: 18 |
| 1/2019-5/2019 | Course Co-Director and Co-Instructor (Co-Director and Co-Instructor: Dr. Robert Joseph) for GMS AN 811: Cognitive Neuroscience, 4cr, enrollment: 6 |
| 9/2019-12/2019 | Course Director, AN 801 Journal Club for Anatomy & Neurobiology graduate students (Co-Director: Dr. Fadie Coleman): "Neuroscience and Social Justice: What Neuroscience Can Teach Us About Current Social Justice Issues", enrollment: 5 |
| 1/2020-5/2020 | Course Co-Director and Co-Instructor (Co-Director and Co-Instructor: Dr. Doug Rosene) for GMS AN 702: Neurobiology of Learning and Memory, 2cr, enrollment: 5 |
| 9/2020-12/2020 | Course Director, AN 801 Journal Club for Anatomy & Neurobiology graduate students: "Stress, Resilience, and Society", enrollment: 8 |
| 1/2021-5/2021 | Course Co-Director and Co-Instructor (Co-Director and Co-Instructor: Dr. Robert Joseph) for GMS AN 811: Cognitive Neuroscience, 4cr, enrollment: 5 |
| 1/2022-5/2022 | Course Co-Director and Co-Instructor (Co-Director and Co-Instructor: Dr. Doug Rosene) for GMS AN 702: Neurobiology of Learning and Memory, 2cr, enrollment: 7 |
| 1/2023-5-2023 | Course Director for GMS AN 811: Cognitive Neuroscience, 4cr, enrollment: 5 |

**Diversity, Equity, Inclusion, and Accessibility (DEIA) Statement:**

DEIA and social justice are core values for me as a cognitive neuroscientist and member of the Boston University community. Everything I do I view through a DEIA and anti-racist lens. The following summarizes how I have incorporated DEIJ/DEIA (J = justice) into all aspects of my professional academic life at Boston University, including research, teaching/mentoring and service.

***Research***. An important line of my research program centers on impact of interpersonal, structural/institutional and cultural racism on neurocognitive health in older Black adults and in emerging Black adult university students. This research focuses on impact or racialized stress on hippocampal, amygdala and prefrontal systems and associated cognitive processes, including, but not limited to episodic memory, working memory, and executive functioning and physiological markers of allostatic load and cardiovascular health. This research is funded by the National Institute

on Aging (R21AG060269, R01AG074213), the National Institute on Mental Health (R01MH128280), and an Alzheimer's Association Research Grant (AARG-17-529566).

***Teaching***. In my Cognitive Neuroscience class, I select papers from authors who are members of underrepresented groups in STEM, and I incorporate discussion of implicit bias and racialized stress as core topics. I have also run departmental journal clubs focused on the intersection of human neuroscience and social justice. In summer 2022, I participated in the Inclusive STEM Teaching Project (ISTP) through BU's School of Public Health that focused on Universal Design for inclusive teaching, and I aim to incorporate principles of Universal Design into teaching.

***Mentoring***. I have extensive experience mentoring students from undergraduate to Post Doc level who are members of underrepresented groups in STEM, and I have an active collaboration with a Historically Black College or University (HBCU), the University of the Virgin Islands (UVI; United States Virgin Islands) through which I mentor undergraduate students in research. In January 2023 I gave an invited research talk and met with students at the University of the Virgin Islands, St. Thomas and St. Croix campuses. I currently serve as a research mentor in UVI's URISE undergraduate biomedical research training summer program. Many of these mentees have continued in the biomedical sciences and/or received research funding/competitive summer research opportunities.

***Service***. I actively participate in the following committees:

- Anatomy & Neurobiology DEIJ Committee; Role: Chair (until 5/2023)
- Graduate Program for Neuroscience (GPN) DEIJ Committee; Role: Chair (until 9/2022)
- Graduate Medical Sciences (GMS) Diversity Steering Committee; Role: Member
- BUMC Glossary for Culture Transformation group; Role: GMS Representative
- BU Faculty Council Equity and Inclusion Committee; Role: Chair
- BU Community Safety Advisory Group; Role: Faculty Council Representative

In June 2020 I served as a panelist for BU's "A Day of Collective Engagement: Racism and Antiracism, Our Realities and Our Roles".

In May 2023 I served as a co-organizer and panelist on a Provost's Workshop on Accessibility.

***Leadership and initiatives***. At the BU Chobanian & Avedisian School of Medicine until May 2023 I served as the Chair of the Anatomy & Neurobiology DEIJ Committee and I am the past Chair of the GPN DEIJ Committee. I currently serve as an Assistant Dean for Diversity & Inclusion at the BU Chobanian & Avedisian School of Medicine. University-wide, I am the Chair of the Faculty Council's Equity and Inclusion Committee. Through these and related roles I have planned and hosted several DEIA events. Recent events included:

- Anatomy & Neurobiology DEIJ Workshop held in September 2021 in collaboration with Kristen Handricken formerly of BU's Diversity & Inclusion office
- I organized and hosted a virtual BU Chobanian & Avedisian School of Medicine GMS panel on diversity statements from faculty candidates with panelists from Boston University, Columbia University, Cornell University and Emory University and created a website with resources (4/2022): https://www.bumc.bu.edu/gms/2022/04/23/why-diversity-statements-are-needed-from-faculty-candidates/.
- I co-organized several student-led GPN DEIJ neuroscience symposia (2020 - )
- I spear-headed and co-wrote a GPN Emerging Scholars Program Neuroscience Symposium application in 2021-2022 (not funded)
- I sought and received funding through a BU D&I Inclusion Catalyst Grant for the virtual panel on diversity statements
- I served on the Planning Committee for a Provost's Panel on Accessibility at the BU Chobanian and Avedisian School of Medicine (5/2023)
- I run the Reads program at the BU Chobanian & Avedisian School of Medicine (2023 - )

***Public Impact***. I am an inaugural faculty affiliate at the Center for Antiracist Research (11/2020 - ) and a 2022 Public Impact Scholar, sponsored by BU's Initiative of Cities. A 2020 co-authored publication with the Black Women's Health Study (Coogan, Schon et al., 2020) on impact of

perceived racism on subjective cognition received significant media attention.

**Mentoring Activities (underlined names indicate known underrepresented group affiliation):**

| Mentee, degree(s) | Dates | Collaborative manuscript or product produced | Mentee Current Position |
|---|---|---|---|
| **Post Docs** | | | |
| Tahlia Bragg | 9/2022- | Dr. Schon provides career mentoring (career development and grant writing); collaboration on racism burden and neurocognitive aging grant. Drs. Bragg and Schon are working on a diversity supplement for Dr. Schon's NIA-funded R01 grant. | Postdoctoral Fellow with Dr. Bob Stern, Neurology, BU Chobanian & Avedisian School of Medicine |
| **Doctoral Students** | | | |
| Lea Stith | 9/2022- | Rotating 1st-year PhD student (9/22-12/22); Behavioral Neuroscience Program; PhD student since 7/2023 | Rising 2nd-year PhD student at BU Chobanian & Avedisian School of Medicine (Schon Lab) |
| Anthony Spinella | 6/2019 | Rotating 1st-year MD/PhD student; poster presentation at 2019 Underrepresented Graduate Student Organization at BU | MD/PhD student at BU Chobanian & Avedisian School of Medicine |
| Razan Alotaibi | 9/2018-5/2023 | Ph.D. research (Dept. of Anatomy & Neurobiology), cognitive neuroscience and exercise physiology; social stress | Faculty member at Imam Abdulrahman Bin Faisal University, Saudi Arabia |
| Michael Rosario | 9/2017- | Ph.D. student (Graduate Program for Neuroscience), cognitive neuroscience of psychosocial chronic stress and cognitive aging, BU GMS, Boston, MA; 5/15/2023: successfully defended dissertation. *Recipient of a Robert Wood Johnson Foundation Health Policy Research Scholarship Cohort 2018 (first BU recipient); SfN NSP 2020 Fellow; 2021 recipient of F99/K00 D-SPAN award* | PhD student with Dr. Schon at BU Chobanian & Avedisian School of Medicine until 9/2023; 10/2023 (anticipated): postdoctoral fellow with Dr. Megan Herting, University of Southern California |
| Kathryn Kern | 1/2016-7/2021 | Ph.D. student (Dept. of Anatomy & Neurobiology), cognitive neuroscience and exercise physiology | Post Doc at Biogen |

| Mentee, degree(s) | Dates | Collaborative-manuscript or product produced | Mentee Current Position |
|---|---|---|---|
| Rachel Nauer Wehr | 9/2013-7/2019 | Ph.D. student (Dept. of Psychological and Brain Sciences; Brain, Behavior, and Cognition program), cognitive neuroscience and exercise physiology; *Recipient of the Dean of Arts and Sciences Award for best poster presentation at the Annual Research Symposium 2015 (3/2015); recipient of Clara Mayo Award, Dept. of Psychological and Brain Sciences (3/2016); recipient of an NIH-funded NRSA (9/2016).* | Associate Director of Patient Insights, Vertex Pharmaceuticals, Boston, MA |
| Mary Orczykowski | 9/2013-10/2013 | Rotating 1st year PhD student (Dept. of Anatomy & Neurobiology) | Lecturer III & Co-Curator in Anatomical Sciences |
| **Master's Students** | | | |
| Rayven-Nikkita Collins | 5/2022- | M.S. thesis research (Anatomy & Neurobiology) | M.S. student with Dr. Schon at BU Chobanian & Avedisian School of Medicine |
| Karim Hussain Ismat | 5/2019-5/2020 | M.S. thesis research (Anatomy & Neurobiology) | PhD student, Institute for Biomedical Sciences, George Washington U. |
| Amara Ayoub | 5/2019-5/2020 | M.S. thesis research (Anatomy & Neurobiology) | PhD student, Institute for Biomedical Sciences, George Washington U. |
| Alan Espinal Martinez | 10/2018-8/2019 | M.S. thesis research (Anatomy & Neurobiology) | MD student at Autonomous University of Guadalajara, Mexico |
| Sheba Antony | 8/2018-5/2019 | Graduate student (M.S. in Mental Health Counseling and Behavioral Medicine); volunteer research assistant | Therapist at private company in New York, NY |
| Shiraz Mumtaz | 7/2018-5/2019 | M.S. thesis research (M.S. in Medical Sciences program) | Medical student at Drexel University, Philadelphia, PA |
| Thabit Alotaibi | 5/2018-9/2018 | Practicum student (M.S. in Clinical Investigation) | MD fellowship, Saudi Arabia |
| Nicolle De Siqueira | 8/2017-5/2018 | M.S. thesis research (M.S. in Medical Sciences program) | Predoctoral Trainee BU Chobanian & Avedisian School of Medicine, Graduate Medical Sciences, Dept of Medical Sciences |
| Razan Alotaibi | 7/2017 - 5/2018 | M.S. thesis research (Anatomy & Neurobiology) | Faculty member at Imam Abdulrahman Bin Faisal University, Saudi Arabia |
| Yongho Chris Jo | 9/2016 - 4/2017 | M.S. thesis research (M.S. in Medical Sciences program) | Clinical Research Coordinator at Stanford University School of Medicine |

| Mentee, degree(s) | Dates | Collaborative-manuscript or product produced | Mentee Current Position |
|---|---|---|---|
| Andrew Goss | 6/2016 - 4/2017 | M.S. thesis research (Anatomy & Neurobiology) | Clinical Research Coordinator at Beth Israel Deaconess Medical Center |
| Andres Velez Lopez | 1/2016 - 4/2017 | M.S. thesis research (Anatomy & Neurobiology) | Operations Coordinator Provincial Health Services Authority, Vancouver, BC, Canada |
| Corey Kronman | 8/2015 - 4/2016 | M.S. thesis research (M.S. in Medical Sciences program) | MD/PhD student at Pennsylvania State University |
| **Undergraduate Students** | | | |
| Cameron Craighead | 1/2023 – 5-2023 | Directed Study on impact of racialized stress on hippocampal function and structure. | Undergraduate student at Boston University, Undergraduate Program for Neuroscience |
| Arjun Batra | 6/2022 - 8/2022 | Summer research through STaRS (Summer Training as Research Scholars) program at BU Chobanian & Avedisian School of Medicine | Undergraduate student at University of Michigan, Ann Arbor, Michigan |
| Janae Bruce | Summer 2022 | Research assistant, Alzheimer's Association Research Grant, St. Croix site (University of the Virgin Islands, St. Croix campus) | Undergraduate student at the University of the Virgin Islands (UVI), St. Thomas campus, St. Thomas, USVI |
| Danesha Derima | Summer 2022 | Research assistant, Alzheimer's Association Research Grant, St. Croix site (University of the Virgin Islands, St. Croix campus) | Undergraduate student at the University of the Virgin Islands (UVI), St. Thomas campus, St. Thomas, USVI |
| Ashley Challenger | 6/2022-5/2023 | Research assistant, Alzheimer's Association Research Grant, St. Croix site (University of the Virgin Islands, St. Croix campus) | Undergraduate student at the University of the Virgin Islands (UVI), St. Croix campus, St. Croix, USVI. (graduated 5/2023) |
| Shantalle Martinez | 6/2021 - 8/2021 | Summer research through STaRS (Summer Training as Research Scholars) program at BU Chobanian & Avedisian School of Medicine | Undergraduate student at University of Miami, Miami FL |
| Cheyenne Watts | 9/2020 - 5/2022 | Research volunteer, UROP (Undergraduate Research Opportunities Program; Summer 2020) awardee; Directed Study | Undergraduate student in Biology: Neurobiology at Boston University (graduated 5/2022) |
| Reyna Gariepy | 6/2020 - 8/2020 | Summer research through STaRS (Summer Training as Research Scholars) program at BU Chobanian & Avedisian School of Medicine | Neuroscience PhD student at Tufts University |

| Mentee, degree(s) | Dates | Collaborative manuscript or product produced | Mentee Current Position |
|---|---|---|---|
| Alexanne Carr | 9/2019 – 5/2023 | Research assistant, Alzheimer's Association Research Grant, St. Croix site (University of the Virgin Islands, St. Croix campus) | Undergraduate student at the University of the Virgin Islands (UVI), St. Croix campus, St. Croix, USVI. (graduated 5/2023) |
| Azriel Williams | 9/2019 - 5/2022 | Research assistant, Alzheimer's Association Research Grant, St. Croix site (University of the Virgin Islands, St. Croix campus) | Undergraduate student at the University of the Virgin Islands (UVI), St. Croix campus, St. Croix, USVI. (graduated 5/2022) |
| Stephanie Gonzalez Gil | 1/2019 - 5/2021 | Work Study/Research Assistant, UROP awardee (Spring + Summer 2020); Senior thesis research (Fall + Spring 2021), BU | Clinical Research Assistant at the Boston University Chronic Traumatic Encephalopathy (CTE) Center |
| Mabel Cheng | 9/2018 - 12/2018 | Work Study/Research Assistant | Statistical Programmer at Pfizer, Boston, MA |
| Alyssa DeLong | 7/2018 - 5/2019 | Volunteer/Research Assistant, UROP awardee (Spring 2019), BU | Veterinary Assistant and Scribe at Veterinary Emergency Group, Boston, MA |
| Janelle Maxwell | 9/2018 - 12/2018 | Directed Study project (Psychological and Brain Sciences) | Unknown |
| Zachary Croll-Nesbeth | 6/2018 - 8/2018 | Summer research through STaRS (Summer Training as Research Scholars) program at BU Chobanian & Avedisian School of Medicine | MPH student at University of Alabama at Birmingham |
| Reagan Katulege | 6/2017 - 8/2018 | Summer research through STaRS (Summer Training as Research Scholars) program at BU Chobanian & Avedisian School of Medicine | (deceased 12/5/2019) |
| Christina Fontana | 9/2017 - 5/2018 | BU BME Senior Design Project student; automation of resting tremor assessment in Parkinson's disease | Solutions Consultant at Dassault Systèmes, Detroit Metropolitan Area |
| Ayan Waite | 9/2017 - 5/2018 | BU BME Senior Design Project student; automation of resting tremor assessment in Parkinson's disease | PhD student in Electrical and Computer Engineering, Brown University |
| Tommi Tsao | 5/2017 - 5/2018 | UROP awardee (Summer 2017); BU BME Senior Design Project student; automation of resting tremor assessment in Parkinson's disease | MD student at Rosalind Franklin University (9/2022 - ) |
| Natalia Torres | 5/2017 - 5/2018 | Work Study/Study Coordinator, UROP awardee, BU | Medical Student at BU Chobanian & Avedisian School of Medicine |
| Samantha Muyalde | 9/2016 - 4/2017 | Volunteer Research Assistant (Fall 2016, Spring 2017) | Clinical Information Manager (CIM) at Envision Physician |

| Mentee, degree(s) | Dates | Collaborative-manuscript or product produced | Mentee Current Position |
|---|---|---|---|
| Diana Abbas | 9/2016 - 12/2016 | Work Study/Study Coordinator, UROP awardee, BU | Medical Student at BU Chobanian & Avedisian School of Medicine |
| Olivia Lanman | 8/2016 - 4/2017 | Senior Thesis research (Fall 2016/ Spring 2017), BU | Unknown |
| Michael Rosario | 6/2016 - 5/2017 | Summer research through STaRS (Summer Training as Research Scholars) program at BU Chobanian & Avedisian School of Medicine; Senior Thesis research, Univ. of the Virgin Islands, St. Croix, USVI. *Recipient of poster award, ABRCMS 2016* | PhD student with Dr. Schon at BU Chobanian & Avedisian School of Medicine |
| Madeline Brendle | 6/2016 - 4/2017 | Volunteer research assistant (Summer 2016), UROP awardee (Fall 2016, Spring 2017), BU | PhD student, Department of Pharmacotherapy, University of Utah College of Pharmacy |
| Sarah Savoy | 1/2016 - 8/2016 | Volunteer research assistant (Spring 2016), UROP awardee (Summer 2016), BU | Account Manager at Marcor Development, an Azelis Americas Company, Boston, MA |
| Michelle Sibol | 1/2016 - 4/2016 | Volunteer research assistant (Spring 2016), BU | Unknown |
| Andrea Heard | 9/2015 - 12/2016 | Volunteer research assistant (Fall 2015), UROP awardee (Spring 2016, Summer 2016), Directed Study (Fall 2016), BU | Clinician at Center Street Center, Bethlehem, PA |
| Natalia Lopez | 10/2014 - 4/2016 | Volunteer research assistant (Fall 2014), Senior Thesis research (Fall 2015/Spring 2016), BU | Medical Student at BU Chobanian & Avedisian School of Medicine (graduated 5/2023) |
| José Miguel Romo Corrales | 9/2014 - 4/2016 | Volunteer research assistant (Fall 2014) and UROP awardee (Summer 2015), Senior Thesis research (Fall 2015/Spring 2016), BU | Unknown |
| Natalie Cherry | 6/2014 - 12/2014 | Volunteer research assistant (Summer 2014), Directed Study (Fall 2014), BU | Biomedical Engineer, Neuroengineer, Los Angeles, CA |
| Alexander Delgado | 9/2013 - 4/2016 | Work Study/Study Coordinator (Summer and Fall 2014, Spring and Fall 2015, Spring 2016), Directed Study (Fall 2014, Spring and Fall 2015), UROP awardee (Summer 2015), BU | Former Human Right's Advocate and Social Services Expert, Consultant, Magis Americas, Washington, DC; 2022 graduate of Masters program in Policy Management from Georgetown University |

| Mentee, degree(s) | Dates | Collaborative-manuscript or product produced | Mentee Current Position |
|---|---|---|---|
| Victoria Gomez | 9/2013 - 4/2015 | Directed Study (Spring 2014), UROP awardee (Summer and Fall 2014), volunteer research assistant (Spring 2015), BU | Unknown |
| Benjamin Coleman | 9/2013 - 4/2016 | Volunteer research assistant (Spring and Fall 2014, Spring 2015), UROP awardee (Summer 2014, Summer 2015), Kilachand Honors College Keystone project research/Senior Thesis research (Junior and Senior years), BU *Recipient of Mary Erskine Outstanding Undergraduate Research Award (6/2015)* | Unknown |
| Andrew Whiteman | 3/2011 - 12/2012 | UROP awardee (Summer 2011), Senior thesis research (Fall 2011, Spring 2012), Research Assistant (5/2012-12/2012). | PhD student in biostatistics at University of Michigan |
| **Other Mentees** | | | |
| Shania Baldwin | 4/2023- | Dr. Schon provides career mentoring (career development and grant writing); collaboration on racism burden in emerging adults grant. Baldwin and Schon are working on a diversity supplement for Dr. Schon's NIMH-funded R01 grant. | Postbaccalaureate Fellow with Dr. Bob Stern, Neurology, BU Chobanian & Avedisian School of Medicine |
| Tatianna Parker | 9/2022- | Postbaccalaureate Fellow with BU PREP program; research on relationship between allostatic load and cortical thickness in older Black and White adult participants in the Framingham Heart Study | Postbaccalaureate Fellow with Dr. Schon, BU Chobanian & Avedisian School of Medicine |
| Niya Adlersberg | 1/2023- | Psychometrist and Research Study Coordinator | Psychometrist and Research Study Coordinator, Schon Lab, BU Chobanian & Avedisian School of Medicine |
| Shiraz Mumtaz | 6/2019-7/2020 | Research Study Assistant and Lab Manager | Medical student at Drexel University, Philadelphia, PA |
| Marina Ritchie | 7/2018-5/2019 | Research Assistant | PhD student, University of California at Irvine Neurobiology and Behavior |
| Matthew Dunne | 9/2013-8/2017 | Research Study Assistant and Lab Manager | PhD student, Graduate Program for Neuroscience, Boston University |

## Other Professional Activities:

**Professional Societies: Memberships, Offices, and Committee Assignments:**

***Society for Neuroscience***
1999-present Member

***Cognitive Neuroscience Society***
2006-present Member

***International Neuropsychological Society***
2011-present Member

***Organization for Human Brain Mapping***
2014-2015 Member

***International Society for Behavioral Neuroscience***
2018-present Member (by invitation only)

***ISTAART – Alzheimer's Association International Society to Advance Alzheimer's Research and Treatment***
2020-present Member

***Ad Hoc Reviewing***
American Journal of Preventive Medicine; Applied Physiology, Nutrition, and Metabolism; Brain; Behavioral Neuroscience; Brain Research Bulletin; Cerebral Cortex; Current Alzheimer Research; Current Biology; European Journal of Neuroscience; European Journal of Sports Science; Experimental Gerontology, Future Neurology; Hippocampus; International Journal of Sports Medicine; Journal of Cognitive Neuroscience; Journal of the International Neuropsychological Society; Learning and Memory; NeuroImage; PLoS One; Physiology & Behavior; Psychonomic Bulletin and Review; Psychophysiology; Scientific Reports; The Journal of Neuroscience

## Major Committee Assignments:

**Study Sections:**

**National Institutes of Health:**

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| 6/2023 | Temporary Member, Human Complex Mental Function – HCMF |
| 6/2022 | Temporary Member, Human Complex Mental Function – HCMF |
| 10/2020 | Temporary Member, NIH/CSR special emphasis panel to review applications on Clinical Trials for the Spectrum of Alzheimer's Disease and Age-related Cognitive Decline |
| 6/2019 | Temporary Member, Cognition and Perception Study Section |
| 11/2017-3/2018 | Member, ZDK1 GRB-1 (M3) 1 MoTrPAC Ancillary Studies Study Section |
| 10/2017 | Temporary Member, Cognition and Perception Study Section |
| 10/2015 | RR&D Fall 2015 SPiRE Reviewer, Office of Research and Development's Rehabilitation Research and Development Service (RR&D), Department of Veterans Affairs |

**Foundation**:

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| 12/2015- | Ad-Hoc Grant Reviewer, Alzheimer's Association |

## Other Support:

**Current:**

8/2022-5/2027 R01MH128280 PI: Karin Schon, PhD
Psychosocial stress, cardio-respiratory fitness, and the medial temporal hippocampal system in Black emerging adults
*(Collaborators: Uraina Clark, Icahn School of Medicine; Yvette Cozier, BU SPH; Jonathan Jackson, Mass General Hospital; Sarah Lipson, BU SPH; Chantal Stern, BU; Thomas Storer, Brigham and Women's Hospital; Yorghos Tripodis, BU SPH)*
**Cost, Total**: $4,053,782
***Role***: PI

8/2022-4/2027 R01AG074213 PI: Karin Schon, PhD
Perceived racism, cardiovascular disease risk, and neurocognitive aging
*(Collaborators: Emelia Benjamin, Framingham Heart Study, BU; Uraina Clark, Icahn School of Medicine; Yvette Cozier, BU SPH; Jonathan Jackson, Mass General Hospital; Robert Stern, BU Neurology and CTE Center; Yorghos Tripodis, BU SPH)*
**Cost, Total**: $3,924,181
***Role***: PI

4/2022-12/2023 1UL1TR001430 PI: David Center, MD (Pilot Grant PI: Karin Schon, PhD)
Allostatic load and physical activity as modulators of racial disparities in neurocognitive aging in the Framingham Heart Study cohort
**Cost, Total**: $20,000
***Role***: PI of Pilot Grant

4/2019-3/2024 R21AG060269 (NCE) PI: Karin Schon, PhD
Psychosocial stressors and the hippocampal memory system in African American seniors
(*Collaborator: Yvette Cozier, BU SPH*)
**Cost, Total**: $453,750
***Role***: PI

**Pending:** None

**Past:**

3/2018-2/2023 AARG-17-529566 PI: Karin Schon, PhD
Perceived racism as a chronic stressor and cognition in Black Seniors
*(Collaborators: Aletha Baumann, University of the Virgin Islands; Yvette Cozier, BU SPH)*
**Cost, Total**: $149,415
***Role***: PI

2021-2022 BU Diversity & Inclusion – inclusion Catalyst Grant
Faculty Candidates & Diversity Statements
**Cost, Total**: $1,000
***Role***: Conceived idea, wrote and submitted application, organized and hosted panel discussion, on behalf of GMS Diversity Steering Committee

8/2016-5/2021 R21AG049968 PI: Karin Schon, PhD
The Entorhinal Cortex and Aerobic Exercise in Aging
*(Collaborator: Scott Moffat, Georgia Tech; Thomas Storer, Brigham and Women's Hospital)*
**Cost, Total**: $210,829
***Role***: PI

1/2017-3/2020 Immumax International, Ltd., Inc., Hong Kong PI: Karin Schon, PhD
Effectiveness of bio-electrical stimulation therapy for the treatment of motor and non-motor symptoms in Parkinson's disease – A pilot study
**Cost, Total**: $50,000
***Role***: PI

7/2018-6/2019 BU-ADC Pilot Grant Program; PI: Karin Schon, PhD
Impact of psychosocial stress on hippocampal integrity in the HOPE cohort: a pilot study
**Cost, Total**: $20,000
***Role***: PI

4/2013-3/2018 R00AG036845 PI: Karin Schon, PhD
Aerobic Exercise, Neurotrophins, and fMRI of Hippocampal Function and Structure
*(Collaborator: Thomas Storer, Brigham and Women's Hospital)*
**Cost, Total**: $243,767
***Role***: PI

11/2015-3/2016 UL1TR001430 PI: David Center, MD (Pilot Grant PI: Karin Schon, PhD)
Feasibility of using physical activity monitoring for enhancing cognition in healthy seniors
**Cost, Total**: $20,000
***Role***: PI

7/2015-6/2016 AOTFIRG14, PI: Simone Gil, PhD
Use of Motor Learning Principles to Reduce Fall Risk After Surgical Weight Loss
**Cost, Total**: $50,000
***Role***: Co-I

9/2010-12/2012 K99AG036845 PI: Karin Schon, PhD
Aerobic Exercise, Neurotrophins, and fMRI of Hippocampal Function and Structure
**Cost, Total**: $179,740.00
***Role***: PI

**Invited lectures, conference oral presentations and workshops:**

***Regional:***

12/1/2010 Aerobic exercise, neurotrophins, and fMRI of hippocampal function and structure: background and design, Center for Clinical Biopsychology, Department of Psychological and Brain Sciences, Boston University, Boston MA

5/17/2012 Is aerobic exercise good for your memory? Department of Anatomy & Neurobiology, BU Chobanian & Avedisian School of Medicine, Boston MA

3/21/2013 Cognitive neuroscience of memory, aerobic exercise and brain plasticity, Boston University Sargent College of Health and Rehabilitation Sciences, Child Development Laboratory, Boston University, Boston MA

4/24/2013 Walk to remember, 7th Annual South Shore Alzheimer Educational Conference, South Shore Partnership, Alzheimer's Association Massachusetts/New Hampshire Chapter

3/20/2014 Exercise, memory, and brain plasticity, Center for Noninvasive Brain Stimulation, Beth Israel Deaconess Medical Center, Boston MA

10/24/2014 Neuroimaging as a tool for delirium research: Functional Neuroimaging, CEDARTREE Second Annual Delirium Bootcamp, Beth Israel Deaconess Medical Center, Boston, MA

6/30/2015 Exercise and the Brain, Evergreen Program (program for adults 58 years or older), Boston University, Boston, MA

5/25/2017 Exercise and the medial temporal lobe memory system, VA West Roxbury, West Roxbury, MA.

9/21/2017 Exercise and the medial temporal lobe memory system, VA Boston, Boston, MA

12/20/2017 Modulators of the hippocampal memory system, Alzheimer's Disease Center, BU Chobanian & Avedisian School of Medicine, Boston, MA

10/14/2018 "Meeting of the Minds: Jump Into Fall: Exercise for Healthy Brain." Invited lecture; invited by MA/NH Chapter of the Alzheimer's Association and the BU Alzheimer's Disease Center; Berea Seventh-Day Adventist Church, Dorchester, MA

6/28/2019 "Fitness and Exercise as Modulators of the Medial Temporal Lobe Memory System." Invited lecture; invited by Dr. Yakeel Quiroz, Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, MA

11/9/2022 "Modulators of the Medial Temporal Hippocampal System Across the Lifespan", MD/PhD Grand Rounds, BU Chobanian & Avedisian School of Medicine, Boston, MA

***National:***

1/24/2008 Working memory in the medical temporal lobes and prefrontal cortex, Integrative Neuroimaging Unit, Clinical Brain Disorders Branch, National Institutes of Health, NIMH, Bethesda MD

9/24/2008 Working memory in the medial temporal lobes, LCTS – Section on Brain Electrophysiology and Imaging, National Institutes of Health, NIAAA, Bethesda MD

3/15/2011 Is aerobic exercise good for your memory?, Department of Kinesiology, University of Maryland, College Park, MD

1/19/2012 Is aerobic exercise good for your memory?, Institute of Gerontology and Department of Psychology, Wayne State University, Detroit MI

4/17/2012 Cognitive neuroscience of memory, aerobic exercise and brain plasticity, Shriners Hospitals Pediatric Research Center (Center for Neural Repair and Rehabilitation), Temple University School of Medicine, Philadelphia PA

11/15/2012 Cognitive neuroscience of memory, aerobic exercise and brain plasticity, Cardiovascular Research Center, Department of Physiology, Temple University School of Medicine, Philadelphia PA

3/1/2013 Memory enhancement in AD through acute aerobic exercise, Charleston Conference on Alzheimer's Disease, Charleston, SC

6/2018 Fitness and exercise as modulators of the medial temporal lobe memory system in young adults. Symposium I: The motor-cognitive interface – motor system contributions to cognition. ISBN – International Society for Behavioral Neuroscience, Anchorage, AK. Invited presentation.

3/2019 Fitness and exercise as modulators of the medial temporal lobe memory system. Keynote Speaker for the 14th Annual ASRC Keynote Address, 14th Annual All School Research Consortium, Rosalind Franklin University, Chicago, IL. *Invited Keynote presentation*.

1/2023 Modulators of the medial temporal hippocampal system across the lifespan. University of the Virgin Islands, St. Thomas and St. Croix campuses, USVI. Invited presentation. **originally scheduled for 1/2022, in-person visit postponed by one year due to COVID-19*.

***International:***

11/24/2011 Is aerobic exercise good for your memory? Research Department of Neuroscience, Ruhr-Universität Bochum, Germany

| | |
|---|---|
| 6/13/2012 | Cognitive neuroscience of memory, aerobic exercise and brain plasticity. Department of Kinesiology and Physical Education, McGill University, Montréal, Québec, Canada |
| 6/25/2018 | Fitness and exercise as modulators of the medial temporal lobe memory system in young adults. International Society for Behavioral Neuroscience annual meeting, Anchorage, AK |
| 6/17/2019 | Impact of racism-related chronic stress on brain aging in Black seniors: A work-in-progress report. International Society for Behavioral Neuroscience annual meeting, Taormina, Sicily |

***Community Outreach:***

| | |
|---|---|
| 7/18/2014 | Summer Pathways Outreach in Science and Engineering program for female high-school students; STEM career panel participant, Boston University, Boston MA |
| 3/14/2016 | GAP Week: Women in STEM Panel, Society of Asian Scientists and Engineers, STEM career panel participant, Boston University, Boston, MA |
| 7/2017 | Organized educational and recruitment effort in collaboration with the BU Alzheimer's Disease Center by providing an informal talk and an exercise session at Grove Hall Senior Center, Dorchester, MA |
| 10/2018 | "Meeting of the Minds: Jump Into Fall: Exercise for Healthy Brain." Organized educational and recruitment event with graduate student-run exercise session attended by Black/African American seniors; collaboration with the MA/NH Chapter of the Alzheimer's Association and the BU Alzheimer's Disease Center; Berea Seventh-day Adventist Church, Dorchester, MA |
| 10/2019 | "Meeting of the Minds: Jump Into Fall: Exercise for Healthy Brain." Organized educational and recruitment event with graduate student-run exercise session targeting Black/African American seniors; collaboration with the MA/NH Chapter of the Alzheimer's Association and the BU Alzheimer's Disease Center; Jamaica Plain Library, Jamaica Plain, MA |
| 4/2021 | Co-organizer and co-instructor, UBMS – Upward Bound Math Science neuroscience outreach program for local low-income and first-generation college-bound students, Wheelock College of Education & Human Development, Boston University |

## Bibliography

ORCID: https://orcid.org/0000-0003-2963-8449
MyNCBI hotlink: https://www.ncbi.nlm.nih.gov/myncbi/karin.schon.1/bibliography/public/
*Shared Authorship
†Corresponding author
Mentee names are underlined

**Original, Peer Reviewed (empirical) Articles:**

1. **Schon K**, Hasselmo ME, LoPresti ML, Tricarico MD, Stern CE. (2004) Persistence of parahippocampal representation in the absence of stimulus input enhances long-term encoding: A functional Magnetic Resonance Imaging study of subsequent memory after a delayed match-to-sample task. *The Journal of Neuroscience* 24(49):11088-11097.] PMID: 15590925.
2. **Schon K**, Atri A, Hasselmo ME, Tricarico MD, LoPresti ML, Stern CE. (2005) Scopolamine reduces persistent activity related to long-term encoding in the parahippocampal gyrus during delayed matching in humans. *The Journal of Neuroscience* 25(40): 9112-9123. PMID: 16207870.

3. Tinaz S, Schendan HE, **Schon K**, Stern CE (2006). Evidence for the importance of basal ganglia output nuclei in semantic event sequencing: An fMRI study. *Brain Research* 1067(1):239-49. PMID: 16360121.
4. **Schon K**, Tinaz S, Somers DC, Stern CE (2008). Delayed match to object or place: an event-related fMRI study of short-term stimulus maintenance and the role of stimulus pre-exposure. *NeuroImage* 39(2):857-72. Epub 2007 Sep 21. PMID: 17950623; PMCID: 2147068
5. LoPresti ML, **Schon K**, Tricarico MD, Swisher JD, Celone KA, Stern CD (2008). Working memory for social cues recruits orbitofrontal cortex and amygdala: a functional magnetic resonance imaging study of delayed matching to sample for emotional expressions. *The Journal of Neuroscience* 28(14):3718-28. PMID: 18385330; PMCID: 2748754
6. **Schon K**, Quiroz YT, Hasselmo ME, Stern CE (2009). Greater working memory load results in greater medial temporal activity at retrieval. *Cerebral Cortex* 19(11):2561-2571 Epub 2009 Feb 18. PMID: 19224975; PMCID: 2758675
7. **Schon K**, Ross RS, Hasselmo ME, Stern CE (2013). Complementary Roles of medial temporal lobes and dorsolateral prefrontal cortex for working memory for novel and familiar trial-unique visual stimuli: an fMRI study. *European Journal of Neuroscience* 37(4):668-678. doi: 10.1111/ejn.12062. Epub 2012 Nov 21. PMID: 23167976.
8. Newmark RE, **Schon K**, Ross RS, Young M, Stern CE (2013). Disambiguation during working memory: A high-resolution fMRI study of the human medial temporal lobe. *Hippocampus* 23(6): 467-475. doi: 10.1002/hipo.22106. Epub 2013 Mar 18. PMID: 23504938; PMCID: PMC4419744.
9. Ross RS, LoPresti ML, **Schon K**, Stern CE (2013). Role of the hippocampus and orbitofrontal cortex during the disambiguation of social cues in working memory. *Cognitive, Affective and Behavioral Neuroscience* 13(4):900-15. doi: 10.3758/s13415-013-0170-x. PMID: 23640112; PMCID: PMC3796192.
10. Whiteman AS, Young DE, Wagenaar RC, Stern CE, **Schon K** (2014). Interaction between serum BDNF and aerobic fitness predicts recognition memory in healthy young adults. *Behavioral Brain Research* 259:302-12. doi: 10.1016/j.bbr.2013.11.023. Epub 2013 Nov 21. PMID: 24269495; PMCID: PMC3991014. *(Recommended by Faculty of 1000 on 12/2013 and received media attention)*
11. **Schon K**, Newmark RE, Ross RS, Stern CE (2015). A working memory buffer in parahippocampal regions – evidence from a load effect during the delay period. *Cerebral Cortex*. doi: 10.1093/cercor/bhv013 [Epub ahead of print]. PMID: 25662713; PMCID: PMC4830282.
12. Nauer RK, Whiteman AS, Dunne MF, Stern CE, **Schon K** (2015). Hippocampal subfield and medial temporal cortical persistent activity during working memory reflects ongoing encoding. *Frontiers in Systems Neuroscience* 9:30. doi: 10.3389/fnsys.2015.00030. eCollection 2015. PMID: 25859188; PMCID: PMC4372545.
13. Whiteman AS, Young DE, Budson AE, Stern CE, **Schon K** (2016). Entorhinal volume, aerobic fitness, and recognition memory in healthy young adults: A voxel-based morphometry study. *NeuroImage*. 126:229-38. doi:10.1016/j.neuroimage.2015.11.049. PMID: 26631814; PMCID: PMC4733633 *(Received media attention)*
14. Kronman CA, Kern KL, Nauer RK, Dunne MF, Storer TW, **Schon K** (2020). Cardiorespiratory fitness predicts effective connectivity between the hippocampus and default mode network nodes in young adults. *Hippocampus*. 30(5):526-541. doi: 10.1002/hipo.23169. PMID: 31647603; PMCID: PMC7442492.
15. Nauer RK, Dunne MF, Stern CE, Storer TW, **Schon K** (2020). Improving fitness increases dentate gyrus/CA3 volume in the hippocampal head and enhances memory in young adults. *Hippocampus*. 30(5):488-504. doi: 10.1002/hipo.23166. Epub 2019 Oct 7. PMID: 31588607; PMCID: PMC7485880.
    *Impact*: This clinical exercise trial extends animal models of hippocampal neuroplasticity by providing novel translational evidence for exercise-induced plasticity specific to the neurogenic zone of the human hippocampus and extends previous human subjects research on the impact of exercise on brain health to young adults and the hippocampal subfield level.

16. Nauer RK, **Schon K***, Stern CE* (2020). Cardiorespiratory fitness and mnemonic discrimination across the adult lifespan. *Learning & Memory*. 27(3):91-103. doi: 10.1101/lm.049197.118. PMID: 32071255; PMCID: PMC7029721.
*Impact*: This cross-sectional study fills an important gap in the literature on the impact of exercise and cardiorespiratory fitness on hippocampal function by providing evidence for attenuation of age-related decline in spatial mnemonic discrimination, a putative measure for hippocampal pattern separation, but not non-spatial mnemonic discrimination, by cardiorespiratory fitness.
17. Islam MR, Luo R, Valaris S, Haley EB, Takase H, Chen YI, Dickerson BC, **Schon K**, Arai K, Nguyen CT, Wrann CD (2020). Diffusion tensor-MRI detects exercise-induced neuroplasticity in the hippocampal microstructure in mice. *Brain Plasticity*. PMID: PMID: 33282678; PMCID: PMC7685674.
18. Coogan P, **Schon K**, Li S, Cozier Y, Bethea T, Rosenberg L (2020). Experiences of racism and subjective cognitive function in African American women. *Alzheimers & Dementia: Diagnosis, Assessment & Disease Monitoring (Amst)*. 12(1):e12067. PMID: 32782921; PMID: 32782921
*Impact:* This publication resulted from a collaboration with the Black Women's Health Study, a large-scale, long-term observational study that has been following 59,000 Black women since 1995. Our collaborative study was among the first to show impact of perceived racism on subjective cognition, which has implications for our understanding of the racial health disparity in Alzheimer's disease and cognitive task performance. I initiated this collaboration and provided critical expertise on neurocognitive aging and Alzheimer's disease. This publication received significant media attention.
19. Kern KL, Storer TS, **Schon K** (2021). Cardiorespiratory fitness, hippocampal subfield volumes, and mnemonic discrimination task performance in aging. *Human Brain Mapping*. 42(4):871-892. doi: 10.1002/hbm.25259. Epub 2020 Dec 16. PMID: 33325614; PMCID: PMC7856657
*Impact*: This study did not provide converging evidence for relationships between cardiorespiratory fitness and task performance on a putative pattern separation task or between cardiorespiratory fitness and dentate gyrus/CA3 volume as evidenced in studies of young adults (see Ref. 15). Rather, this study provided novel evidence for a relationship between cardiorespiratory fitness and bilateral subiculum volume in older adult women, but not men. These findings suggest that cardiorespiratory fitness may have differential effects on hippocampal subfield integrity in older adult men and women.
20. Kern KL, McMains SA, Storer TW, Moffat SD and Schon K (2022) Cardiorespiratory fitness is associated with fMRI signal in right cerebellum lobule VIIa Crus I and II during spatial navigation in older adult women. Front. Aging Neurosci. 14:979741. doi: 10.3389/fnagi.2022.979741
*Impact*: This study provides novel evidence of a relationship between virtual navigation-related fMRI activity in a cerebellar brain area implicated in spatial processing and cardiorespiratory fitness in older adults, extending previous work in humans to extra-hippocampal regions.

**Manuscripts in Revision or Under Peer-Review and Preprints:**

1. Kern KL, Nauer Wehr RK, Storer TW, **Schon K** (in revision). Cardiorespiratory fitness predicts subiculum BOLD signal during mnemonic discrimination in an age-dependent manner.
2. Rosario MA, Kern KL, Mumtaz S, Storer TW, **Schon K** (preprint; in revision). Cardiorespiratory fitness predicts cortical thickness of medial temporal brain areas associated with spatial cognition in young but not older adults. bioRxiv doi: https://doi.org/10.1101/2021.04.11.439355.
3. Alotaibi R, Kern KL, Moffat S, Storer TW, McMains SA, **Schon K** (in revision)**.** Change in cardiorespiratory fitness, hippocampal subfields and virtual navigation in older adults: a randomized controlled trial.

**Media Coverage of Research:**

7/2020 Research article by P. Coogan, K. Schon, S. Li, Y. Cozier, T. Bethea, L. Rosenberg (2020). Experiences of racism and subjective cognitive function in African American women. Alzheimers Dement (Amst) was cited in:
1) The Conversation (https://theconversation.com/racism-linked-to-cognitive-decline-in-african-american-women-143792)
2) CNN (https://www.cnn.com/2020/07/21/health/racism-cognitive-function-

study-wellness/index.html)
3) Newsweek (https://www.newsweek.com/racism-linked-memory-problems-study-african-american-women-1519054)

10/2018 "Graduate Student Receives Health Policy Research Scholarship", BU Chobanian & Avedisian School of Medicine, Boston MA (story was featured on the BU Chobanian & Avedisian School of Medicine Facebook page); "BU doctoral student received health policy research scholarship"; The Daily Free Press, BU, Boston, MA (for graduate student research on racism as a chronic stressor and cognition in Black seniors, funded by the Alzheimer's Association; PI: Schon)

2/2017 Interview with reporter from Oprah Magazine

4/2016 BU Today writes about our research: "Unraveling Alzheimer's Disease // PART 3: Work It Out. Can exercise help delay or prevent the disease? (story was also featured on the Boston University Facebook page)

12/2015 Media coverage of Whiteman et al. (NeuroImage 2016):
1) Neurosciencenews.com: "Importance of Physical Activity and Aerobic Exercise for Healthy Brain Function"
2) ScienceDaily.com: "Importance of Physical Activity and Aerobic Exercise for Healthy Brain Function"
3) The Telegraph (UK): "Couch potato lifestyle could damage intelligence in later life"

12/2015 The BUMC Research website features our research: "Importance of Physical Activity and Aerobic Exercise for Healthy Brain Function"

Fall 2015 CAS features undergraduate student Benjamin Coleman on the cover of the Fall 2015 CAS Magazine: "Can Exercise make you smarter? And other cool questions being asked-and answered-by undergraduate neuroscientists"

3/2014 Psychology Today mentions our research in "Eight Habits that Improve Cognitive Function"

2/2014 HHS Healthbeat describes our research in the podcast "Fit Memory"; NewsTribune.com features our HHS Healthbeat interview "Fit Memory"

1/2014 Interviewed by Good Housekeeping magazine about exercise and brain health

12/2013 Whiteman et al. (2014) is featured in ScienceDaily, and is mentioned in the Psychology Today blog "Can Physical Activities Improve Fluid Intelligence?"

4/2012 BU Today writes about our research: "Inquiring Minds: Exercise and Mental Recall"