

Colleen L. Schneider

Concepts Actions and Objects Lab
Dept. of Brain and Cognitive Sciences
U of R School of Medicine and Dentistry

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EDUCATION

University of Rochester, Rochester, NY, Aug 2013 – Present
Medical Scientist Training Program – MD PhD anticipated 2021

Colgate University, Hamilton, NY, May 2011.
Bachelor of Arts, Summa Cum Laude; GPA: 3.91/4.00; Rank 7/698.
High Honors in Cellular Neuroscience; minor in French.

Wells College, Study abroad in Dakar, Senegal, Spring 2010.

RESEARCH EXPERIENCE

PhD Candidate, **Univ. of Rochester**, B.Z. Mahon Lab, Dept. of Brain and Cog. Sci., Rochester, NY
Aug 2015 – Present.

Researching cortical plasticity after primary visual cortex deafferentation or damage in patients.

Research Technician, **Mass. Inst. of Tech.**, Y. Lin Lab, McGovern Inst. for Brain Res., Cambridge, MA
June 2011 – June 2013.

Co-developed and utilized molecular tools to identify and manipulate neuronal populations altered by memory formation.

Senior Honors Thesis, **Colgate Univ.**, J. Yoshino Lab, Hamilton, NY
Sept 2010 – June 2011.

Designed and implemented experiments to research how acetate supplementation affects Multiple Sclerosis disease progression in an animal model of the disease.

Summer Research Assistant, **Univ. of Colo.**, W. B. Macklin Lab, Cell and Dev. Bio. Dept., Aurora, CO
Summer 2010.

Investigated the effects of retinoic acid on oligodendrocyte development in zebrafish.

Summer Research Assistant, **Cleveland Clinic**, B. D. Trapp Lab, Neurosci. Dept., Cleveland, OH
Summer 2009.

Performed histological analysis of brain tissue to correlate Multiple Sclerosis lesions with MRI.

PUBLICATIONS

Sorensen AT, Cooper YA, Ramamoorthi K, Young A, LaVerriere E, Fropf R, Baratta MV, Weng F, Zhang Y, **Schneider C**, Gotzsche CR, Hemberg M, Maier S, Yin JCP, Lin Y. (2016). A Robust Activity Marking System for Exploring Active Neuronal Ensembles. *eLife* 5:e13918.

Chen J, Easley K, **Schneider C**, Nakamura K, Kidd G, Chang A, Staugaitis SM, Fox RJ, Fisher EJ, Arnold DL, Trapp BD. (2013). Clinically feasible MTR is sensitive to cortical demyelination in MS. *Neurology* 80; 246-252.

POSTERS

Schneider, C.L., Williams, Z.R., Busza, A., Sahin, B., Mahon, B.Z. (2016) Visual Improvement and Changes in Visual Cortex Activity: A Pilot with Two Stroke Patients. University of Rochester Medical Scientist Research Symposium, Rochester, NY.

HONORS

Class of 1997 Award for academic rigor and multi-faceted campus leadership: Spring 2011.
William E. and Nellie K. Edmonston Neuroscience Award for academic excellence, outstanding intellectual curiosity, and dedication to the field of neuroscience: Spring 2011.
Phi Beta Kappa National Honor Society: elected Fall 2010.
Charles A. Dana Scholar for superior academic achievement and demonstrated leadership: selected Spring 2010, 2011.
Beta Beta Beta National Biological Honor's Society: inducted Fall 2010.
Konosioni Senior Honor Society: inducted Spring 2010.
Phi Eta Sigma First Year Honor Society: inducted Fall 2008.
Dean's Honor Roll: all semesters.

LEADERSHIP EXPERIENCE

Teaching Assistant, U of R

Professional Development Small Group Facilitator, Aug 2016.
Mind Brain and Behavior Neuroanatomy Lab Tutor, Aug 2016.

Student Interviewer, URMSTP, Aug 2015 – Present.

Interview MD PhD applicants and provide written feedback to the admissions committee

Public Relations Chair, URMSTP Student Council, U of R, Aug 2015 – Present.

Maintain program website and social media outlets

Leadership Team, Artisan Church, Rochester, May 2015 – Present.

Advise and support church staff, organize events, preach sermons.

U of R Medical Center Christian Fellowship, U of R, Aug 2013 – May 2015.

Co-president, Aug 2014 – May 2015; *Bible study leader*, Aug 2013 – May 2015
Organized events with Christian physicians, led bible study every other week.

Residential Life, Colgate University, Aug 2008 – May 2011.

Apartment Manager, Aug 2009 – May 2011; *Resident Advisor*, Aug 2008 – May 2009.

Fostered community, advised residents, and ensured resident safety; trained in CPR, alcohol safety, and dealing with hate crimes, harassment and sexual assault.

English Teacher, English Resource Center, Dakar, Senegal, Spring 2010.

Planned and taught an eight-week course in intermediate conversational English; developed and led a seminar for English majors on how to research for and write a senior thesis.

Colgate Christian Fellowship, Colgate University, Aug 2007 – May 2011.

President, 2009; *Campus Liaison*, 2008.

Facilitated multiple weekly meetings, devised and delegated goal-oriented tasks, obtained funds and implemented a budget of \$10,000, and cultivated collaboration with other campus organizations.

HEALTHCARE EXPERIENCE

Medical Student, U of R School of Medicine and Dentistry, Rochester, NY, Aug 2013 – Present.

Passed Primary Care Clerkship (outpatient pediatrics and adult) with Honors (top 20%).

Completed two years of basic science coursework for medical school and sat for Step 1 (score: 240).

Health Sciences Intern, Dr. Richard Cohen Family Practice, Hamilton, NY, Sept – Dec 2010.

Gained exposure to the fields of pediatrics, gerontology, and general medicine.

Volunteer, Centre Talibou Dabo, Dakar, Senegal, Spring 2010.

Assisted physical therapists in treating adults with physical disabilities.

Volunteer, Clinique Bartimée, Thies, Senegal, Mar 2010.

Shadowed during rounds, assisted with minor surgical procedures, and observed treatments.

Fellow, Dr. Miller Endowed Fellowship - Adam's Camp, Centennial, CO, May – Aug 2008.

Treated campers with Autism, Down's Syndrome, and Cerebral Palsy alongside occupational and physical therapists and documented camper progress toward therapy goals.

SKILLS AND CERTIFICATIONS

Software: MATLAB, R, Psychtoolbox, Brain Voyager, Excel, Adobe Photoshop, Eprime, DMDX.

Lab techniques: neuronal culture and prep, stereotactic surgery, immunohistochemistry, contextual fear conditioning, PCR, cloning, genotyping and animal husbandry.

Certifications: MRI safety certified, CPR certified, Greater Than Minimal Risk CITI certified.

Languages: French (professional working proficiency), Wolof (elementary proficiency).

REFERENCES

Dr. Brad Mahon
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(585) 281-2699

Dr. Yingxi Lin
McGovern Institute for Brain Research
Massachusetts Institute of Technology
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617-324-6552

Dr. Jun Yoshino
Psychology Department
Colgate University
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315-228-7390