

Hanyan Li, Ph.D.

3780 Mystic Valley Parkway, apt412
Medford, MA, 02155
215-460-4159

hli51@mgh.harvard.edu

[linkedin.com/in/hanyanli](https://www.linkedin.com/in/hanyanli)

<https://connects.catalyst.harvard.edu/Profiles/display/Person/187170>

SKILLS

- Pre-clinical & Clinical Research
- Neuroscience
- Deep Brain Stimulation
- Electrophysiology
- Calcium Imaging
- Neurodegenerative diseases
- Immunohistochemistry
- Data analysis (MATLAB)
- Animal Handling

EDUCATION

- Ph.D /Biomedical Engineering
Stevens Institute of Technology
Hoboken, NJ, 2016-2019, GPA3.81
- MS /Electrical Engineering
Drexel University
Philadelphia, PA, 2012-2014, GPA3.57
- BS / Electrical Engineering
Beijing Institute of Fashion Technology,
Beijing, China, 2008-2012, GPA87/100

AWARDS

- 2nd Place of Pitch Competition,2019
—Stevens Institute of Technology
- Innovation & Entrepreneurship Doctoral
Fellowship, 2018-2019
—Stevens Institute of Technology,
- SfN Travel Award,2017
—Society of Neuroscience
- Dean's Fellowship, 2012-2014
—Drexel University

INVITED TALK

- SPACER: A Novel Technique to
Optimize Deep Brain Stimulation
Targeting — Biomedical Engineering
Seminar, Stevens Institute of Technology,
2018

EXPERIENCE

- Post-doc Research Fellow — Department of Neurology,
Massachusetts General Hospital, Boston, MA, 2020-Now
 - Pre-clinical research for place cell replay in REM sleep
and memory consolidation
 - Pre-clinical research for Alzheimer's Disease using
calcium imaging and electrophysiology
- Research Assistant —Department of Biomedical Engineering,
Stevens Institute of Technology, Hoboken, NJ, 2016-2019
 - Pre-clinical research of deep brain stimulation for
Parkinson's Disease and Obsessive Compulsive Disorders
 - Brain mapping/electrophysiology signal processing for
deep brain stimulation targeting optimization
- Biomedical Engineer in Cognitive Neuroscience —The
NeuroCognitive Institute (NCI), Livingston, NJ, 2019
 - Clinical diagnostic, treatment and research interventions
with patients in cognitive neurology and neuropsychology.
 - EEG analysis, conducting functional brain mapping
analysis, conducting target optimizations

CONFERENCE PRESENTATION

- SfN, Society of Neuroscience, 2017, 2018, 2019
- NEBEC, Northeast Bioengineering Conference,2017
- NANS, North American Neuromodulation Society, 2018

PUBLICATIONS

- Li, H., & McConnell, G. C. Microstimulation Evoked Neuronal
Activity in the Substantia Nigra pars reticulata in Anesthetized
Rats, *Brain Stimulation, Volume 12, Issue 2, March–April 2019*
- Li, H., & McConnell, G. C. (In press, 2019). Deep brain stimulation
for gait and postural disturbances in Parkinson's disease, *Advances in
Motor Neuroprostheses, New York, NY: Springer.*
- Li, H., & McConnell, G. C. (accepted, 2019) Intraoperative
Microrecordings of Substantia Nigra pars reticulata for Deep Brain
Stimulation for Parkinson's Disease—accepted *Frontiers in Neuroscience*
- Li, H., & McConnell, G. C. (in preparation, 2020). Changes in Evoked
Coherence in Subregions of the Striatum and Substantia Nigra pars
reticulata in Anesthetized Rats.
- Li, H., & McConnell, G. C. (in preparation, 2020). Changes in Evoked
Coherence in Subregions of Substantia Nigra pars reticulata in
Anesthetized Parkinsonian Rats.

PATENTS

- SPACER: A Technique to Improve Deep Brain Stimulation Targeting
during Intraoperative Microelectrode Recordings (filed 2019)