

**Erin D. Ozturk, B.A.**  
*Curriculum Vitae*

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SDSU/UC San Diego Joint Doctoral Program (JDP) in Clinical Psychology  
San Diego State University  
University of California, San Diego  
VA San Diego Healthcare System  
Personal: [erozturk@health.ucsd.edu](mailto:erozturk@health.ucsd.edu)  
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Spaulding Rehabilitation Hospital  
Cerebrovascular Research Laboratory  
Harvard Medical School  
Department of Physical Medicine and Rehabilitation  
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## EDUCATION

- 2020 – present SDSU/UC San Diego Joint Doctoral Program (JDP) in Clinical Psychology  
Area of Emphasis: **Neuropsychology**  
**Mentor:** Lisa Delano-Wood, Ph.D.
- 2015-2019 Harvard University, Cambridge, MA  
B.A.: **Cognitive Neuroscience and Evolutionary Psychology**  
Secondary: **Neurobiology**
- Relevant Course Work*    **PSY 910r:** Supervised Reading & Research  
Fall 2017, Spring 2018, Fall 2018  
**Faculty Supervisor:** Daniel L. Schacter Ph.D.  
**Co-Supervisor:** Can Ozan Tan, Ph.D.
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## RESEARCH POSITIONS

- 05/2019 – present ***Clinical Research Assistant II***  
Spaulding Rehabilitation Hospital, Cambridge, MA  
Cerebrovascular Laboratory  
**PI:** Can Ozan Tan, Ph.D.
- General Responsibilities:**
- Participate in recruitment of new members for Dr. Can Ozan Tan’s laboratory; review applications, interview applicants, and facilitate onboarding and training.
  - Prepare, submit, and manage Institutional Regulatory Board (IRB) protocol applications, amendments, study events, continuing reviews, and regulatory materials.
  - Coordinate study procedures and data collection across various research studies.
  - Administer Transcranial Doppler (TCD), Near Infrared Spectroscopy (NIRS), Electrocardiogram (ECG), Montreal Cognitive Assessment (MoCA), Trail Making Test (TMT), and VO<sub>2</sub> max and submax exercise tests.
  - Manage study data including data entry, quality assurance, and analysis using MatLab, EPIC, Excel, and R Statistics.
  - Assist with abstract, poster, and manuscript preparation and submission.
- 05/2017 – 05/2019 ***Student Clinical Research Assistant (Volunteer)***  
Spaulding Rehabilitation Hospital, Cambridge, MA  
Cerebrovascular Laboratory  
**PI:** Can Ozan Tan, Ph.D.
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## RESEARCH EXPERIENCE

- 02/2020 - present **Cognitive Function and Cerebrovascular after Spinal Cord Injury**  
**PI:** Can Ozan Tan Ph.D.
- Assess the impact of spinal cord injury and full-body exercise training on cognitive function.
  - Explore the relations of the integrity of neurovascular coupling, cerebral oxygenation, and cerebral oxygen consumption to post-SCI cognitive function.
- 09/2019 – present **Heart Rate Variability as a Biomarker for Anorexia Nervosa**  
**PI:** J. Andrew Taylor
- Assess whether heart rate variability differs between healthy athletes and those with anorexia nervosa and if we can discriminate between these two populations.

- 05/2019 – present **Retrospective Analysis of the Boston Bike Concussion Test**  
**PI:** Can Ozan Tan Ph.D. and Mary A. Iaccarino M.D.
- Investigate a sub-maximal exercise test in concussed individuals administered by clinicians at The Sports Concussion Clinic at Massachusetts General Hospital.
  - Assess the relationship between heart rate exercise training and concussions.
- 02/2019 - present **Cerebrovascular and Cognitive Function after Repetitive Head Injuries**  
**PI:** Can Ozan Tan Ph.D. and Mary A. Iaccarino M.D.
- Assess cerebrovascular function at rest and during an acute bout of exercise in adults who sustained at least one mild traumatic brain injury.
  - Assess the relationship between cerebrovascular function, head injury exposure (severity and frequency) and cognitive function in adults who sustained at least one mild traumatic brain injury.
- 01/2019 – present **Exercise Training to Mitigate Post-Stroke Cognitive Decline**  
**PI:** Stacey E. Aaron Ph.D. and Can Ozan Tan Ph.D.
- Explore cerebrovascular function in stroke survivors, those with MCI, and healthy older individuals without any cognitive impairment.
  - Determine the impact of a standardized 12-week progressive aerobic exercise training intervention on cognitive function in stroke survivors and individuals with MCI.
  - Assess the interrelationship of cerebrovascular and cognitive function.
- 10/2017 – present **Cerebrovascular Function as a Marker for Optimal Timing and Intensity of Exercise after Concussion**  
**PI:** Can Ozan Tan Ph.D.
- Assess cerebrovascular function at rest and cerebral blood flow response during an acute bout of sub-symptom threshold exercise in adolescents who recently sustained a concussion and uninjured controls.
  - Determine the relation of exercise-induced symptom onset to cerebral blood flow response to exercise.
- 05/2017 – present **Regional Cerebral Blood Flow during Exercise in Spinal Cord Injury**  
**PI:** Can Ozan Tan Ph.D.
- Characterize acute cerebrovascular responses to hybrid FES rowing in individuals with spinal cord injury.
- 05/2017 – present **Chronic Spinal Cord Injury and Short-Term Control of Cerebral Blood Flow in Humans**  
**PI:** Can Ozan Tan Ph.D.
- Assess cerebrovascular function in SCI, and its relation to injury level and duration.
  - Examine impact of cerebrovascular function in response to a 6-month hybrid-FES exercise intervention in SCI patients.
- 05/2017 – present **Hybrid-FES Exercise to Prevent Cardiovascular Declines in Acute and Chronic SCI**  
**PI:** J. Andrew Taylor Ph.D.
- Document changes in body composition (visceral adiposity) and insulin sensitivity (homeostatic model assessment) resulting from FES-row training in comparison to a waitlist control and to arms-only row training.
  - Quantify changes in key indices of cardiovascular health (serum lipids) and control (arterial Baroreflex gain) with FES-RT in comparison to wait-list control and to arms-only-RT.
  - Compare the body composition, insulin insensitivity, cardiovascular health and control, and myocardial structure and function and the magnitude of adaptations to FES-RT across a range of injury duration from acute to chronic SCI.

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## FUNDING

### Metabolic and Perfusion Neurovascular Coupling \Responses in Veterans with mTBI

National Science Foundation Graduate Research Fellowship

Awardee: **Erin D. Ozturk**

Submitted: 10/2019

Awarded: 03/2020

### Chronic Spinal Cord Injury and Short-Term Control of Cerebral Blood Flow in Humans

Harvard College Research Program (HCRP) Summer Funding Award

Awardee: **Erin D. Ozturk** Submitted: 03/2018 Awarded: 04/2018

### Regional Cerebral Blood Flow during Exercise in Spinal Cord Injury

Harvard College Research Program (HCRP) Summer Funding Award (Abramson Fund)

Awardee: **Erin D. Ozturk** Submitted: 03/2017 Awarded: 04/2017

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## PUBLICATIONS

**Ozturk, E. D.**, Aaron, S.E., Hunt, D.L., Daniels, R., Meehan III, W.P., Howell D.R., Hamner, J. W., Tan, C. O. (2020). "Neurovascular Function in Acute Adolescent Concussion." In Preparation.

Aaron, S.E., **Ozturk, E. D.**, Daniels, R., Hunt, D.L., Howell D. R., Meehan III, W.P., Tan, C.O. (2020) "Acute Adolescent Concussion: Cerebrovascular Reactivity, Symptom Burden, and Exercise Response." In Preparation.

Afshar, K., **Ozturk, E. D.**, Picard, G., Taylor, J. A. (2020). "Effect of Hybrid FES Exercise on Body Composition during the Sub-acute Phase of Spinal Cord Injury." *Obesity*. In Review.

**Ozturk, E. D.**, Aaron, S.E., Hunt, D.L., Daniels, R., Meehan III, W.P., Howell D.R., Hamner, J. W., Tan, C. O. (2020). "The Development of Cerebrovascular Function in Adolescence." *Journal of Cerebral Blood Flow & Metabolism*. In Review.

Herget, L., Aaron, S.E., Howell D. R., **Ozturk, E. D.**, James, K. A., Roy, E. D., Zafonte, R., Iaccarino, M. A., Tan, C. O. (2020). "Boston Bike Exercise Test: The Link between Post-Concussion Symptom Burden at Rest and in Response to Progressive Exercise." *J Neurotrauma*. In Review.

Howell D. R., Aaron, S.E., Hunt, D.L., Taylor, J.A., **Ozturk, E. D.**, Daniels, R., Meehan III, W.P., Tan, C.O. (2020) "Physical and Physiologic Response to Exercise After Concussion." *MSSE*. In Review.

Aaron, S.E., James, K. A., **Ozturk, E. D.**, Lapointe, M.S., Kim, D., Hamner, J. W., Tan, C. O. (2020). "Impact of 6-Month Exercise Training on Cerebrovascular Function in Persons with Spinal Cord Injury." *MSSE*. In Review.

**Ozturk, E. D.**, Lapointe, M.S., Kim, D., Hamner, J. W., Tan, C. O. (2020). "Impact of 6-Month Exercise Training on Neurovascular Function in Persons with Spinal Cord Injury." *MSSE*.

**Ozturk, E. D.** & Tan, C. O. (2018). "Human Cerebrovascular Function in Health and Disease: Insights from Integrative Approaches." *Journal of Physiological Anthropology*.

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## PRESENTATIONS AND POSTERS

Aaron, S.E., Howell D.R., **Ozturk, E.D.**, Daniels, R., Hunt, D.L., Taylor, J.A., Meehan III, W.P., Tan, C.O. (2020). "Acute Adolescent Concussion: Cerebrovascular Reactivity, Symptom Burden, and Exercise Response." *American College of Sports Medicine Annual Meeting*. Thematic ePoster Presentation.

**Ozturk, E. D.**, LaPointe, M., Draghici, A. E., Hamner, J.W., & Tan, C.O. (2019). "Cerebral Vascular Responses to Changes in Blood Gases in Individuals with Chronic SC." *Spaulding Research Institute Symposia*. Charlestown, MA. ePoster Presentation.

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## ABSTRACTS

**Ozturk, E. D.**, Aaron, S.E., Hunt, D.L., Daniels, R., Meehan III, W.P., Howell D.R., Hamner, J. W., Tan, C. O. (2020). "The Development of Cerebrovascular Function in Adolescence." *International Neuropsychological Society Annual Meeting*. In Review.

**Ozturk, E. D.**, LaPointe, M., Kim, D., Hamner, J. W., Tan, C. O. (2020). "Impact of 6-Month Exercise Training on Neurovascular Function in Persons with Spinal Cord Injury." *American College of Sports Medicine Annual Meeting*. Accepted for Poster Presentation.

James, K. A., Aaron, S.E., **Ozturk, E. D.**, LaPointe, M., Kim, D., Hamner, J. W., Tan, C. O. (2020). "Impact of 6-Month Exercise Training on Cerebrovascular Function in Persons with Spinal Cord Injury." *American College of Sports Medicine Annual Meeting*. Accepted for Poster Presentation.

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## CLINICAL EXPERIENCE

05/2017 – present *Clinical Research Assistant*  
Spaulding Rehabilitation Hospital, Cambridge, MA

04/2019 – present *Adaptive Sports Volunteer, Rock Climbing*  
Brooklyn Boulders, Adaptive Climbing Group, Somerville, MA

- Committed 15 hours for both adult and children adaptive climbing.
- Helped kids with Cerebral Palsy, autism, and physical disabilities rock climb.

- 09/2017 – 11/2019  
09/2019 – present
- Adaptive Sports Volunteer, Ice Skating and Ice Hockey***  
Franciscan Children’s Hospital, Brighton, MA
- Committed 35 hours for every 9-week program (2 programs in total).
  - Helped two kids with autism learn how to skate and play ice hockey.
- 06/2017 – present
- Shadow Ronald J. Calvanio, CP, Ph.D., Clinical Neuropsychology***  
Massachusetts General Hospital, Boston, MA
- Assisted with fMRI and neuropsychological cognitive testing data analysis.
  - Shadowed neuropsychological appointments including cognitive testing.
  - Shadowed co-treatment appointments with neuropsychology and physical therapy.
- 08/2017
- Shadow Rajiv Gupta M.D., Ph.D., Neuroradiology and Cardiovascular Imaging***  
Massachusetts General Hospital, Boston, MA.
- Shadowed 8 hours of emergency department radiology analyzation and interpretation
- 01/2017
- Shadow William H. Warden III M.D., Orthopedic Sports Medicine***  
Memorial Orthopedic Surgical Group, Long Beach, CA
- Shadowed 40 hours of private practice appointments and clinical hours.
- 05/2017 – 05/2019
- Emergency Department Radiology Volunteer***  
Massachusetts General Hospital, Boston, MA
- Committed 150 hours.
- 09/2016 – 05/2017
- Patient Escort Volunteer***  
Massachusetts General Hospital, Boston, MA
- Committed 100 hours.
- 08/2016
- Shadow Alberto Mendivil M.D., Gynecological Oncology***  
Hoag Memorial Hospital Presbyterian, Newport Beach, CA
- Shadowed 10 hours of robotic surgical operations.

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## **SKILLS**

- Technical:** Transcranial Doppler (TCD), Near Infrared Spectroscopy (NIRS), Electrocardiogram (ECG), Montreal Cognitive Assessment (MoCA), Trail Making Test (TMT), and VO<sub>2</sub> max and submax exercise tests.
- Software:** R Statistical Software, Mendeley Reference Management System, MatLab, LabCharts Reader, EPIC