Seminar Series

Research Frontiers in Biomathematics

Daniel Tward, Ph.D.
Assistant Professor
Departments of Computational Medicine and Neurology
Ahmanson-Lovelace Brain Mapping Center
UCLA
http://danieltward.com/

Thursday Oct. 29th, 2020 | 4 - 5pm

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Identifying structural changes in the brain specific to early Alzheimer’s disease

Abstract

Abstract: Alzheimer’s disease is the leading cause of dementia in the United States, with an estimated 5.8 million Americans suffering from the disease. Despite the prevalence, a decisive diagnosis cannot be made until autopsy, leading to challenges for potential treatment or clinical trial design. In this talk we draw upon evidence from neuropathology to design a specific cortical thickness biomarker from series of structural magnetic resonance images. We address the computational challenges associated with variability in neuroanatomy, and demonstrate that specific patterns of thinning can be detected years before dementia symptoms appear.

Ref.1 Ref.2

Fall Calendar 2020

- 10/1 Lucas Bottcher
- 10/8 Ni Zhao
- 10/15 Hua Zhou
- 10/22 Andy Dahl
- 10/29 Daniel Tward
- 11/5 Kit Curtius
- 11/12 Olivia Angelin-Bonnet
- 11/19 Harold Pimentel
- 12/3 Jasmine Foo
- 12/10 Alex Brummer