



Centre for  
**Heart Lung Innovation**  
UBC and St. Paul's Hospital

## Centre for Heart Lung Innovation Seminar Series

---



### **Atrial Fibrosis as a Pathophysiological Nexus Between Fibrillation and Stroke: How We Can Use Computational Modeling to Elucidate Complex Mechanisms**

**Patrick M. Boyle, PhD, FHRSC**  
Assistant Professor  
Cardiac Systems Simulation (CardSS) Lab Lead  
Department of Bioengineering  
University of Washington  
Seattle, WA

Friday October 21<sup>st</sup>, 11:30 – 12:30 PM  
Gourlay Conference Centre, Room 103  
**(ZOOM Meeting ID: 662 2255 0438; passcode: 623137)**

Hosted by Zachary Laksman

---

*“Computer modeling has led to better understanding of arrhythmia. This talk will explore how we can build upon these tools to predict stroke risk as well. Our aim is to use simulations to predict how structural remodeling (fibrosis) affects electrical activity, contraction, and blood flow. Through this work we hope to reveal links between fibrosis, arrhythmia, and thrombogenesis.”*

*This event is a Self-Approved Group Learning Activity as defined by the Maintenance Certification Program of the Royal College of Physicians and Surgeons of Canada*



a place of mind

THE  LUNG ASSOCIATION™  
British Columbia



HEART &  
STROKE  
FOUNDATION  
OF BC & YUKON

*Finding answers. For life.*