EUGENIO RICCI

Department of Electrical, Electronic and Information Engineering, University of Bologna
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EDUCATION

University of California, Los Angeles June - December 2022
Research period
Heart rate variability analysis of vagal nerve stimulation effects in infarcted pigs

Alma Mater Studiorum - University of Bologna October 2020 - present
PhD in Biomedical Engineering
Mathematical modelling of cardiac pacemaking

Alma Mater Studiorum - University of Bologna October 2017 - March 2020
Master's Degree in Biomedical Engineering, Cum Laude
Multiscale analysis of an HCN4 channel double mutation in a human sinoatrial computational model

Alma Mater Studiorum - University of Bologna September 2014 - October 2017
Bachelor's Degree in Biomedical Engineering

JOB EXPERIENCE

Internship at Elements S.r.l, Cesena September 2019 - November 2019

Development of a graphical user interface in MATLAB aimed at loading, analysing and exporting electrophysiological data.

PUBLICATIONS

Ricci E, Bartolucci C, Severi S. **The virtual sinoatrial node: What did computational models tell us about cardiac pacemaking?** Prog Biophys Mol Biol. 2023

Campana C*, Ricci E*, Bartolucci C, Severi S, Sobie EA. **Coupling and heterogeneity modulate pacemaking capability in healthy and diseased two-dimensional sinoatrial node tissue models**. PLoS Comput Biol. 2022

CONFERENCE WORKS

Computing in Cardiology, Atlanta (GA), October 2023

Quantification of local calcium releases contribution to diastolic depolarization in a 3D model of single rabbit sinoatrial node cell
Eugenio Ricci, Chiara Bartolucci, Stefano Severi

The role of sinoatrial node heterogeneity in atrial driving and arrhythmia
Eugenio Ricci, Chiara Bartolucci, Moreno Marzolla, Stefano Severi

Cross-talk of Cells in the Heart (The Physiological Society), Liverpool (UK), September 2023

The role of sinoatrial node heterogeneity in atrial driving and arrhythmia
Eugenio Ricci, Chiara Bartolucci, Moreno Marzolla, Stefano Severi

Computing in Cardiology, Brno (Czech Republic), September 2021

Effects of Density and Distribution of Non-spontaneous Myocytes, Scars and Fibroblasts Inside the Human Sinoatrial Node
Eugenio Ricci, Chiara Bartolucci, Stefano Severi

Computing in Cardiology, Rimini (Italy), September 2020

Mutiscale computational analysis of the effect on heart rate of a HCN4 gene double mutation: from the single channel to the clinical phenotype
Eugenio Ricci, Alan Fabbri, Teun de Boer, Stefano Severi

Elements Read GUI: a versatile tool to display and analyse electrophysiological experimental data
Eugenio Ricci, Filippo Cona, Stefano Severi

AWARDS & GRANTS

- Bill & Gary Sanders Poster Award Competition at the Computing in Cardiology annual meeting 2023 (Atlanta, GA, USA)
- Geometric and Harmonic Analysis with Interdisciplinary Applications (GHAIA) 6-month secondment grant 2022 (Los Angeles, CA, USA)
- NVIDIA Academic Hardware Grant Program
- EHRA Congress Educational Grant 2021 (Copenhagen, Denmark)

Cesena, 11/10/2023