Fyrbødervej 12, st. 2004, 2400, København NV

Phone: (+45) 50 31 24 90, Email: ianorzel@gmail.com

Research Interest I am a PhD student studying at the University of Copenhagen under my advisor

Srikanth Srinivasan. My interests lie in the topic of Complexity Theory, with a focus in Algebraic Complexity Theory. Specifically, my current research focuses on lower

bounds from computation in specific algebraic models.

Education Doctor of Philosophy, Computer Science

University of Copenhagen Advisor: Srikanth Srinivasan September 2025 - August 2028

Master's of Science, Computer Science

University of Copenhagen September 2023 - July 2025

GPA: 4.0

Bachelor's of Science, Computer Science and Applied Mathematics

Florida Institute of Technology August 2019 - May 2023

GPA: 4.0

Publications Computing the Elementary Symmetric Polynomials in Positive Characteristics

Pre-print

Bessmertnyi realizations of symmetric multivariate rational matrix functions over any

field Pre-print

with Jason Elsinger and Aaron Welters

The Algebraic Cost of a Boolean Sum

FSTTCS 2025, Goa, India

with Srikanth Srinivasan, Sébastien Tavenas, and Amir Yehudayoff

Talks Multivariable Rational Matrix Functions: Synthesis Constraints Using Reciprocal Elec-

trical Networks

From Discrete to Continuum Models in Composite Materials

Third Joint SIAM/CAIMS Annual Meetings (AN25)

Teaching Experience Introduction to Quantum Information Science

Teaching Assistant

Fall 2025

Advanced Computer Systems

Teaching Assistant

Fall 2024

Advanced Programming Teaching Assistant

Fall 2024

Programming Language Design Teaching Assistant Spring 2023 & Spring 2024

Implementation of Programming Languages Teaching Assistant Spring 2023 & Spring 2024

Seminars and Workshops AN25

Third Joint SIAM/CAIMS Annual Meetings

July 28–August 1, 2025; Montréal, Québec, Canada