Tamio-Vesa Nakajima

PERSONAL DETAILS

Address Trinity College, Broad Street, Oxford, UK

Phone (+40) 728 804 411

Mail tamio-vesa.nakajima@cs.ox.ac.uk

Website www.tamionv.ro

EDUCATION

DPhil in Computer Science

2021-present

University of Oxford, Trinity College

Studying graph/relational structure homomorphism problems, and (promise) constraint satisfaction problems. Supervised by Stanislav Živný.

MCompSci in Computer Science

2017-2021

University of Oxford, University College

Part A and B: First class honours. Part C: Distinction.

PUBLICATIONS AND PRE-PRINTS

Maximum Bipartite vs. Triangle-Free Subgraph

T.-V. Nakajima, S. Živný

arXiv 2024

A logarithmic approximation of linearly-ordered colourings

Johan Håstad, Björn Martinsson, T.-V. Nakajima, S. Živný

arXiv 2024, Approx 2024 (to appear)

An approximation algorithm for Maximum DiCut vs. Cut

T.-V. Nakajima, S. Živný

arXiv 2024

Hardness of linearly ordered 4-colouring of 3-colourable 3-uniform hypergraphs

M. Filakovský, T.-V. Nakajima, J. Opršal, G. Tasinato, U. Wagner

arXiv 2023, STACS 2024

Maximum k- vs. ℓ -colouring of graphs

T.-V. Nakajima, S. Živný

arXiv 2023

On the complexity of symmetric vs. functional PCSPs

T.-V. Nakajima, S. Živný

ACM TALG, LICS 2023, arXiv 2023

1-in-3 vs. Not-All-Equal: Dichotomy of a broken promise

L. Ciardo, M. Kozik, A. Krokhin, T.-V. Nakajima, S. Živný

arXiv 2023, LICS 2024

Linearly Ordered Colourings of Hypergraphs

T.-V. Nakajima, S. Živný

ICALP 2022, ToCT February 2023, arXiv 2022

The Syndrome-Trellis Sampler for Generative Steganography

T.-V. Nakajima, A. Ker

WIFS 2020

SCHOLARSHIPS

Clarendon Scholarship 2021

University of Oxford

Oxford Graduate Scholarship. The list of scholars can be found here.

University of Oxford Awarded in partnership with the Clarendon Scholarship Trinity College Graduate Scholarship 202I University of Oxford Awarded in partnership with the Clarendon Scholarship **HONORS AND AWARDS** Microsoft prize 2.02.1 Best student project by a CS student in Oxford CS Part C. (Joint winner.) Hoare prize 2020 Best overall performance by a CS student in Oxford CS Part A & B. **BCS** prize 2018 Best overall performance by a CS student in Oxford CS prelims. Gold Medal 2018 NWERC, Bath, team: Tractor_Specialists. Qualification 2.018 ACM ICPC world finals, Beijing, team: Tractor_Specialists. Qualification 2018, 2019, 2020 Google Hashcode finals, with teams: Tractor_Specialists, Steaklovers, Rust team. 2017 International Olympiad in Informatics, Tehran. Gold Medal 2017 Central European Olympiad in Informatics, Ljubljana. Silver Medal 2016 Balkan Olympiad in Informatics, Nikosia. Bronze, Silver, Gold, Bronze Medal 2014-2017 Romanian National Olympiad in Informatics.

2021

ACTIVITIES

Scatcherd European Scholarship

Teaching. Taught Combinatorial Optimization classes (MT 2022) and Imperative Programming tutorials at Oxford.

Research projects. Participated on PowAlgDo and NAASP.

Research presentations. Presented at: WIFS 2020, BCTCS 2022, Dagstuhl seminar 22201, LSE PhD seminar on Combinatorics, Games and Optimisation, ACiD seminar, LICS 2023, Romanian Algorithm Days 2023, CSP World Congress 2023, LICS 2024

Event participations. Participated at: EPIT 2023: Le Kaléidoscope de la Complexité, CSP World Congress 2022, Czech Summer School on Discrete Mathematics 2024

Competitive programming scientific committees. Balkan Olympiad in Informatics 2018, 2022, proposed a task in 2023; Junior Balkan Olympiad in Informatics 2022, 2023; InfO(1)Cup 2019–2024 (Executive Chairman: 2020–2024); Romanian Master of Informatics 2020–2023; European Junior Olympiad in Informatics 2021; Romanian National Olympiad in Informatics (several years).

Competitive programming team leading. Deputy Team Leader for Romania at the European Junior Olympiad in Informatics 2020; Deputy Team Leader for Romania at the Central European Olympiad in Informatics 2021; Deputy Team Leader for Romania at the International Olympiad in Informatics 2023.