

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

A logarithmic approximation of linearly-ordered colourings

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

[arXiv 2024](#)

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. Tassinato, U. Wagner

[arXiv 2023](#), [STACS 2024](#)

Maximum k - vs. ℓ -colouring of graphs

T.-V. Nakajima, S. Živný

[arXiv 2023](#)

Boolean symmetric vs. functional PCSP dichotomy

T.-V. Nakajima, S. Živný

[LICS 2023](#), [arXiv 2023](#)

r -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](#) (to appear)

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. I was the only CS DPhil offered this scholarship in the year I applied. The list of scholars can be found [here](#).

Scatcherd European Scholarship 2021

University of Oxford

Awarded in partnership with the Clarendon Scholarship

Trinity College Graduate Scholarship

2021

University of Oxford

Awarded in partnership with the Clarendon Scholarship

HONORS AND AWARDS

Microsoft prize

2021

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

2018

ACM ICPC world finals, Beijing, team: Tractor_Specialists.

Qualification

2018, 2019, 2020

Google Hashcode finals, with teams: Tractor_Specialists, Steaklovers, Rust team.

Gold Medal

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.

ACTIVITIES

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](#).

Event participations. Participated at: [EPIT 2023: Le Kaléidoscope de la Complexité](#), [CSP World Congress 2022](#).

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.