Tamio-Vesa Nakajima

PERSONAL DETAILS

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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

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

Boolean symmetric vs. functional PCSP dichotomy
T.-V. Nakajima, S. Živný
   LICS 2023, arXiv 2023

On the complexity of the approximate hypergraph homomorphism problem
L. Ciardo, M. Kozik, A. Krokhin, T.-V. Nakajima, S. Živný
   arXiv 2023

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.