

Tong CHEN

POSTDOC · MACHINE LEARNING SECTION

DIKU, University of Copenhagen, Denmark

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Education and Experience

University of Copenhagen

POSTDOC IN MACHINE LEARNING

- Advisor: Raghavendra Selvan

Copenhagen, Denmark

Jun. 2023 - Now

Université Paul Sabatier

PHD IN APPLIED MATHEMATICS AND COMPUTER SCIENCE

- Advisor: Edouard Pauwels, Victor Magron, Jean-Bernard Lasserre

Toulouse, France

Sep. 2019 - Dec. 2022

Université Paris Sud

MSC IN STATISTICS AND MACHINE LEARNING

- Advisor: Edouard Pauwels, Victor Magron, Jean-Bernard Lasserre

Paris, France

Sep. 2017 - Sep. 2019

Wuhan University & Université de Franche-Comté

BSC IN MATHEMATICS

- Advisor: Jean-Robert Belliard

Wuhan, China & Besançon, France

Sep. 2013 - Jun. 2017

Publications and Preprints

Hallgrímur Thorsteinsson, Valdemar J. Henriksen, **Tong Chen**, Raghavendra Selvan. Adversarial Fine-tuning of Compressed Neural Networks for Joint Improvement of Robustness and Efficiency. Preprint, 2024.

Tong Chen, Raghavendra Selvan. Dataset Compression: A Unified View. Ongoing work, 2024.

Tong Chen, Raghavendra Selvan. Is Adversarial Training with Compressed Datasets Effective? Preprint, 2024.

Tong Chen, Jean-Bernard Lasserre, Victor Magron, Edouard Pauwels. A Sublevel Moment-SOS Hierarchy for Polynomial Optimization. Computational Optimization and Applications, 2022.

Tong Chen, Jean-Bernard Lasserre, Victor Magron, Edouard Pauwels. Semialgebraic representation of monotone deep equilibrium models and applications to certification. NeurIPS, 2021.

Tong Chen, Jean-Bernard Lasserre, Victor Magron, Edouard Pauwels. Semialgebraic Optimization for Lipschitz Constants of ReLU Networks. NeurIPS, 2020.

Supervision

2024 **Philipp Hinz**, MSc student, University of Copenhagen

Denmark

2024 **Aske R. Ching, Niklas J. Borge (co-supervised with Raghavendra Selvan)**, MSc student, University of Copenhagen

Denmark

2023 **Hallgrímur Thorsteinsson, Valdemar J. Henriksen (co-supervised with Raghavendra Selvan)**, BSc student, University of Copenhagen

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Reviewing Activities

MICCAI 2024, IMA 2024, NeurIPS 2024, ICLR 2025, ICML 2025, Array 2025.

Funding

Co-applicant, EU Horizon 2024 Grant to DATAPACT: Compliance by Design of Data/AI Operations and Pipelines.