

# SAEED GHOORCHIAN

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🌐 [/saeed-ghoorchian](#)

🎮 [/guchis](#)

## EDUCATION

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**Ph.D. in Computer Science**, University of Tübingen, Germany.

2018 - Present

**M.Sc. in Applied Mathematics**, Joint Erasmus Mundus Master Program,

University of Hamburg (primary), Germany,

University of L'Aquila (secondary), Italy.

2015 - 2017

**B.Sc. in Pure Mathematics**, Iran University of Science and Technology, Iran.

2009 - 2014

## WORK EXPERIENCES

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**Senior Researcher**, University of Tübingen, Germany.

June 2022 - Present

Developing algorithms for sequential decision-making problems with costly features in dynamic environments.

**Consultant on Algorithm Development**, Datalyze Solutions GmbH, Germany.

May 2022 - July 2022 · Freelance

Algorithm design and development of optimization problems.

**Research Assistant**, Technical University of Berlin, Germany.

May 2018 - May 2022

Developing frameworks and algorithms to model and solve online learning problems with partial feedback in dynamic environments with various characteristics, such as causal relations, costly features, and high-dimensional features.

**Guest Researcher**, Hamburg University of Technology, Germany.

November 2017 - March 2018

Applying kernelized principal component analysis, support vector machines, and  $\epsilon$ -support vector regression for modelling systems of high complexity.

🎮 [guchis/An-epsilon-SVR-Approach-for-Model-Identification](#)

🎮 [guchis/Dimensionality-Reduction-Using-KPCA](#)

## ACADEMIC EXPERIENCES AND APPEARANCES

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**Teaching Assistant**, University of Tübingen, Germany.

October 2022 - Present

October 2021 - March 2022

Introduction to Game Theory with Application in Multi-Agent Systems.

**Supervision**, Technical University of Berlin and University of Tübingen, Germany.

May 2021 - May 2022

Supervising bachelor and master students to design learning algorithms.


**Reviewer:** AISTATS 2023 – IEEE ISIT 2022 – AISTATS 2021 – IEEE TCNC.

#### Talks and Presentations:

**September 2022** University of Tübingen  
**July 2022** IJCAI 2022  
**November 2021** University of Tübingen  
**June 2021** University of Tübingen  
**April 2021** University of Tübingen  
**September 2017** Hamburg University of Technology

## PUBLICATIONS

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- [1] **Saeed Ghoorchian** and Setareh Maghsudi. "Multi-Armed Bandit for Energy-Efficient and Delay-Sensitive Edge Computing in Dynamic Networks with Uncertainty". *IEEE Transactions on Cognitive Communications and Networking (TCCN)*, 2021.
  - [2] Onur Atan, **Saeed Ghoorchian**, Setareh Maghsudi, and Mihaela van der Schaar. "Data-Driven Online Recommender Systems with Costly Information Acquisition". *IEEE Transactions on Services Computing (TSC)*, 2021.
  - [3] **Saeed Ghoorchian\***, Behzad Nourani-Koliji\*, and Setareh Maghsudi. "Linear Combinatorial Semi-Bandit with Causally Related Rewards". *International Joint Conference on Artificial Intelligence (IJCAI)*, 2022.
  - [4] **Saeed Ghoorchian**, Evgenii Kortukov, and Setareh Maghsudi. "Online Learning with Costly Features in Non-stationary Environments". *Under review*, 2022.
-  [guchis/NCC-Bandits](#)
- [5] **Saeed Ghoorchian** and Setareh Maghsudi. "Non-stationary Delayed Combinatorial Semi-Bandit with Causally Related Rewards". *Under review*, 2022.

## SKILLS

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<b>Programming Languages</b>	• Python (Proficient) • Matlab (Good) • Simulink (Basic).
<b>Packages</b>	Pytorch, Keras, Tensorflow, Pandas, Numpy, Matplotlib.
<b>Languages</b>	• English (Fluent) • Persian (Native) • German (Basic)
<b>Academic Writing</b>	Ability to convey technical information in a clear and concise style.

## AWARDS AND HONORS

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**September 2015** Admission as one of the top students for master studies.  
**August 2015** Full scholarship from the Erasmus Mundus program (from EU).  
**September 2009** Admission as one of the top students for bachelor studies.