# Siyuan Chen

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## Education

**Chalmers University of Technology**                                                    **Gothenburg, Sweden, 10/2022-present**
- PhD student in Production Systems

**Uppsala University**                                                                             **Uppsala, Sweden, 09/2020-09/2022**
- Master of Industrial Analytics (Computer Science degree)

**University of Copenhagen (Erasmus Program)**                               **Copenhagen, Denmark, 09/2021-01/2022**
- Master of Computer Science

**Politecnico di Milano**                                                                          **Milan, Italy, 09/2014-09/2019**
- Bachelor of Management and Production Engineering, Double Degree Program

**Tongji University**                                                                               **Shanghai, China, 09/2014-09/2019**
- Bachelor of Mechanical Design, Manufacture and Automation, Double Degree Program

## Professional Experience

**Business Analytics Data Support Intern, MIP Management School, Politecnico di Milano**        **Milan, Italy, 03/2019-07/2019**
- Drafted a marketing assessment report based on comparing the research on the doctor in business administration (DBA) in Chinese and the international market, including degree recognition, market share and strategy analysis.
- Product competitiveness analysis of MIP online courses based on marketing research on government policies, competitive products, market volume, and regional marketing differences of the online marketing of China.

**Data Analytics Intern, Bosch Automotive Technical Service Co., Ltd.**        **Shanghai, China, 10/2017-03/2018**
- Assessed efficiency and profit rates of alliance businesses through the data collected from 10 provinces forming the proposal of performance improvement for the western and northern regions manager and worked as data analyst to write analytical report for consultants to optimize work procedure and improve work efficiency through big data analysis.

## Research Experience

**Integrated Manufacturing Analytical Platform Project (IMAP) (**https://research.chalmers.se/en/project/10688**) 10/2022-present**
- Dedicated to building an integrated manufacturing analytical platform with AI layer, digital twin layer and real system layer that support predictive maintenance in decision-making.
- Used unsupervised and self-supervised deep learning models to detect and localize the anomaly of industrial images.

**Cyber-Physical Automated Guided Vehicles (AGV) Modelling & Simulation-based Optimization**        **01/2022-08/2022**
- Use deep reinforcement learning to optimize the scheduling of AGV in the warehouse and use Optuna to find optimal hyperparameter of DQN and greatly improve the operating efficiency of AGV.

**Pharma Genesis Blockchain Solution for Counterfeit Medicine Circulation**        **09/2021-11/2021**
- Use blockchain which is based on Hyperledger Fabric and Azure to connect pharmaceutical manufactures, transportation companies and pharmacies, to provide the end consumer with medication that is fully traceable.

**Research Assistant, Surface Fractal Dimensional Prediction Based on Energy Consumption**        **08/2018-08/2019**
- Program MATLAB to deal with surface fractal data, calculate fractal dimensions and use Particle Swarm Optimization (PSO) BP neural network to help predict the surface roughness.

## Leadership Experience

**President of Chinese Students and Scholars Association at Chalmers (CSSA-CTH)**        **Gothenburg, Sweden, 07/2023-present**
- Plan impactful Chinese cultural events to foster strong connections between the embassy and students.

**Representative Student in Industrial Analytics**                               **Uppsala, Sweden, 08/2020-08/2022**
- Attended the committee meeting and made suggestions on the direction of department development from the student level.

**Student Ambassador in Uppsala University**                                   **Uppsala, Sweden, 08/2020-08/2021**
- Responsible for posting the school's official Weibo and other social media every week, sharing about studying and living in Uppsala, and answering other students' doubts, and expanding the university's influence in China.

**Chairman of Reasoning Association (a mystery novel club)**        **Shanghai, China,02/2017-07/2017**
- Organized Bounty Hunter and Easy Chair Detective, in which more than 200 people participated. Developed clubs from 30 members to 140 members in five months and won 'Best Interest Community' at the Tongji University.

## Additional & Skills

- **Language**: Chinese (Native), English (Fluent), Italian (Academic), Swedish (KC3 in SFI).
- **Industrial Skills**: AutoCAD, Evoma Facts Analyzer, Simens Plant Simulation.
- **Programming Skills**: Python, C++, Linux, SQL, MATLAB, Hadoop, PySpark, TensorFlow, Pytorch, Optuna.
- **Awards and Honor**: Adlerbertska Foreign Student Hospitality Foundation Scholarship, Erasmus Scholarship, Stenholms and W Resestip Scholarship, Social Activity Scholarship.