



# NIU Xuezhi

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Uppsala, Sweden

## EDUCATION

- Uppsala University** 2024–present  
*Ph.D. Student in Embedded Systems* Uppsala, Sweden
- KTH Royal Institute of Technology** 2021–2023  
*M.Sc. Mechatronics* Stockholm, Sweden
- City University of Hong Kong** 2017–2021  
*B.Eng. Mechanical Engineering* Hong Kong SAR, China
- National University of Singapore** 2020  
*Academic Exchange* Singapore

## RESEARCH INTERESTS

- Cyber-Physical Systems
- Reinforcement Learning
- Control & Dynamics

## JOURNAL PUBLICATIONS

- Tan, K., Niu, X., Ji, Q., Feng, L., & Törngren, M. Learning-enhanced Optimal Gait Design for a Tendon-driven Soft Quadruped Robot via Multi-fidelity Bayesian Optimization.

## CONFERENCE PUBLICATIONS

- Niu, X., Tan, K., & Feng, L.. Optimal Gait Control for a Tendon-driven Soft Quadruped Robot by Model-based Reinforcement Learning.

## OTHER PUBLICATIONS

- Maser Thesis: Xuezhi, N. (2023). Optimal Gait Control of Soft Quadruped Robot by Model-based Reinforcement Learning. Dissertation, 2023. Available: [here](#)
- HK project: EGENÄS, C., EKMAN, F., MA, C., NASER, T., NIU, X., SERNELIN, A., ... & STRÖM, B. (2023). Electronically Vacuum Regulated Shut-off Valve for Milking System. Available: [here](#)

## ACADEMIC ACTIVITIES

- Teaching assistant for master level courses at KTH (MF2007) and Uppsala (1DT106, 1DT108, 1DT054, 1RT495, 1DT104)

## AWARDS & ACHIEVEMENTS

- Talent Development Scholarship, Hong Kong SAR, China 2020.6
- Second Prize in National Finals of the Challenge Cup Competition, Beijing, China 2019.11
- Silver Prize in National Finals of Internet + Competition, Hangzhou, China 2019.10
- Second Prize in HK University Student Innovation and Entrepreneurship Competition 2019.4