

# Curriculum Vitae CV

## Personal Details

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## Education

- **Ph.D in Computer Science**, Johannes Kepler University Linz, Austria (2019–2023)  
Thesis: Certifying Hardware Model Checking  
Supervisor: Prof. Armin Biere
- **M.Eng in Computing**, Imperial College London, United Kingdom (2014–2018)  
*First Class Honours*  
Thesis: Model Checking Temporal Epistemic Logic under Bounded Recall  
Supervisor: Prof. Alessio Lomuscio

## Career Breaks

Maternity leave 2021-2022.

## Employments Experience

- **Postdoc**, Institute of Science and Technology Austria, Klosterneuburg, Austria (2023–Present)  
Research group of Prof. Thomas A. Henzinger
- **External Consultant**, Woodpecker Technologies, Singapore (Aug 2022 - Jan 2023)  
Pre-silicon formal verification.
- **Project Assistant**, Johannes Kepler University Linz, Linz, Austria (2019–2023)  
Institute for Formal Models and Verification
- **Software Engineer**, Morgan Stanley, London, United Kingdom (April - Sept 2017)  
6-month industrial placement. Full-stack development.
- **Software Engineer Internship**, BlackRock, London, United Kingdom (June - Aug 2016)  
Summer internship. Web platform development.
- **Teaching Assistant**, Imperial College London, London, United Kingdom (2015-2016)  
Part-time employment. Courses in Reasoning about programs, Logic, and Discrete Maths.
- **Research Assistant**, Imperial College London, London United Kingdom (July - Sept 2015)  
20 hours per week. Research group of Prof. Chris Hankin

## Research Interests

Runtime monitoring, hardware verification, multi-agent systems. Integration of formal methods and machine learning for reliable autonomous systems.

## **Language Proficiency**

English (fluent), Cantonese (fluent), German (B2), Mandarin (native)

## **List of Research Qualifications**

### **Event Organization**

- CAV 2021, Virtual. A member of the volunteering team.
- QONFEST 2020, Vienna, Austria. A member of the volunteering team.
- Kurt Goedel Conference 2019, Vienna, Austria. A member of the volunteering team.

### **Academic Service**

- IJCAI 2025, Program Committee.
- FMCAD 2025, Program Committee.
- CADE 2025, Reviewer.
- iFM 2024, Manchester, United Kingdom. Program Committee.
- VMCAI 2024. Artifact Evaluation Committee.
- FM 2024. Artifact Evaluation Committee.
- ATVA 2024, ATVA 2025. Artifact Evaluation Committee.

### **Supervision**

- Since Jan 2025, Co-supervision of a PhD student Rotation Project.  
Institute of Science and Technology (IST) Austria, Klosterneuburg, Austria  
Verification of logic gate neural networks.
- Since Jan 2025, Co-supervision of a PhD student Rotation Project.  
Institute of Science and Technology (IST) Austria, Klosterneuburg, Austria  
Certificate-based neural control.
- Sept-Dec 2024, Co-supervision of a PhD Student Rotation Project.  
Institute of Science and Technology (IST) Austria, Klosterneuburg, Austria  
Predictive runtime monitoring for complex dynamical systems.