Zhendong ANG

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	National University of Singapore, Singapore
2022.08 - present	
	Ph.D. in Computer Science
	Adviser: Prof. Umang Mathur
2019.09 - 2022.07 2015.09 - 2019.06	École Polytechnique Fédérale de Lausanne, Switzerland
	M.Sc. in Computer Science
	Zhejiang University, P. R. China
	B.Sc. in Computer Science
	B.Sc. III Computer Science
NTERNSHIP 2021.07 - 2022.01	Oracle Labs, Zürich
2021.07 - 2022.01	
	• Implement Intel Memory Protection Key (MPK) protection for MultiLingual Engine (MLE)
POPL 2024	Zhendong Ang, Umang Mathur. "Predictive Monitoring against Pattern Regular Languages."
CPP 2024	Qiyuan Zhao, George Pîrlea, Zhendong Ang , Umang Mathur, Ilya Sergey. "Rooting for Efficiency: Mechanised Reasoning about Array-Based Trees in Separation Logic."
	2024 CPP Distinguished Paper Award
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AWARDS	
2024	NUS School of Computing Research Achievement Award
2021	I was a second of the second o
PROJECTS	
2022.02 - 2022.07	Macro Annotations for Scala 3 (EPFL LAMP – Programming Methods Laboratory)
	Designed patterns and APIs for macro annotations in Scala 3.
	Implemented macro annotations expansion.
2021.03 - 2021.07	ScalaPy Related Projects (EPFL LAMP – Programming Methods Laboratory)
	• Created Numpy interface in Scala using ScalaPy and explored pattern of type facades.
	• Migrated ScalaPy to Scala 3: refactored the code and used macros in Scala 3.
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	Supported exposing custom Scala types to Python.
2020 09 - 2021 01	
2020.09 - 2021.01	Extending GADTs support in Scala 3 (EPFL LAMP – Programming Methods Laboratory)
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2020.09 - 2021.01 FALK 2024.01	 Extending GADTs support in Scala 3 (EPFL LAMP – Programming Methods Laboratory) Explored how subtype, class type parameters, and GADTs work in Dotty. Added GADTs constraint to class type parameters.
TALK TALK	 Extending GADTs support in Scala 3 (EPFL LAMP – Programming Methods Laboratory) Explored how subtype, class type parameters, and GADTs work in Dotty. Added GADTs constraint to class type parameters. This new feature has been merged into Scala 3.