WILSON SONSINI



Bibek Bhandari

IP SPECIALIST

Patents and Innovations

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FOCUS AREAS

Artificial Intelligence and Machine Learning

Intellectual Property

Patents and Innovations

Quantum Computing

EXPERIENCE

Bibek Bhandari is an IP specialist in the San Diego office of Wilson Sonsini Goodrich & Rosati, where his practice focuses on patents and innovations, specifically patent prosecution and due diligence matters in the fields of quantum computing and machine learning.

During his doctoral studies at the Scuola Normale Superiore of Pisa, Italy, in the group of Fabio Taddei and Rosario Fazio, Bibek's research focused on quantum thermodynamics and quantum thermal machines in nanoscale and mesoscale devices, including how heat flows through and is converted to useful work in quantum systems.

Prior to joining the firm, Bibek was a postdoctoral researcher at the University of Rochester and the Institute for Quantum Studies, Chapman University in the group of Andrew Jordan, where his research focused on the design and control of superconducting qubits for quantum computing, in collaboration with experimental research teams at UC Berkeley.

Bibek is fluent in Nepali, Italian, and Hindi.

CREDENTIALS

Education

- Ph.D., Nanoscience, Scuola Normale Superiore, 2021
  Cum Laude; Ph.D. Fellowship; Recipient, Giuseppe Davide Paparo Research Award
- M.Sc., Physics, Central Department of Physics, Tribhuvan University, 2016
- B.Sc., Physics, Tribhuvan University, 2013

INSIGHTS

Select Publications

- Co-author, "Symmetrically Threaded Superconducting Quantum Interference Devices as Next-Generation Kerr-Cat Qubits," 6 *PRX Quantum* 030338, 2025
- Co-author, "Artificially Intelligent Maxwell's Demon for Optimal Control of Open Quantum Systems," 10(2) *Quantum Science and Technology* 025047, 2025
- Co-author, "High-Coherence Kerr-Cat Qubit in 2D Architecture," 14(4) *Physical Review X* 041049, 2024
- Co-author, "Programmable Heisenberg Interactions Between Floquet Qubits," 20(2) *Nature Physics* 240, 2024
- Co-author, "Thermal Rectification Through a Nonlinear Quantum Resonator," 103(15) *Physical Review B* 155434, 2021
- Co-author, "Geometric Properties of Adiabatic Quantum Thermal Machines," 102(15) *Physical Review B* 155407, 2020
- Co-author, "Thermal Drag in Electronic Conductors," 98(3) *Physical Review B* 035415, 2018

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