

Bora Bozdag

MASTERS STUDENT · UNIVERSITY OF OXFORD

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Education

University of Oxford

Oct 2022 - Aug 2026

PHYSICS MPHYS

- Masters Project: Quantum Detection of Electromagnetic Signals at THz Frequencies with SIS (Superconductor-Insulator-Superconductor) Mixers
- Masters Advisors: Prof. Ghassan Yassin, Dr. Nikita Klimovich

Research Experience

Harvard University, Beth Israel Deaconess Medical Center, Cardiac MR Group

Jul 2025 - Sep 2025

RESEARCH SUMMER INTERN

- *Project Topic:* Development of a T1-weighted, intrinsically dark-blood pulse sequence for LGE imaging, enabling artifact-free imaging with improved CNR compared to commercially available sequences.
- *Computational Part:* Built a Python-based Bloch equation simulation for pulse sequence optimisation.
- *Publication:* Conference Abstracts (2)

Diamond Light Source & University of Oxford, Magnetic Spectroscopy Group

Jul 2024 - Aug 2024

RESEARCH SUMMER INTERN

- *Project Topics:* Building an in-lab VNA-FMR system, Thin Film growth (Sputtering), Material characterisation, Shadowing in 2 beamtimes.
- *Material Characterisation Techniques used/shadowed:* XAS, XRR, XRD, AFM, XMCD, XFMR, VSM, VNA-FMR, 4-point probe.
- *Additional Shadowing:* Clean Room
- *Report:* https://www.borabozdag.com/documents/2024_Summer_Internship_Report.pdf

University of Oxford, Third Year Project

Nov 2024

UNDERGRADUATE STUDENT

- *Project Topic:* Experimental Investigation of Harmonic Contributions to Spectral Filter Equivalent Widths
- *Key Experimental Aspects:* LabVIEW instrument automation, Optics and Electronics for Signal Modulation, Python data-analysis.
- *Report:* https://www.borabozdag.com/documents/Third_Year_Project_Report.pdf

Publications

CONFERENCE ABSTRACTS

Bozdag, B., Wallace, T., Morales, M., *et al.* (2026) *Dark-blood late gadolinium enhancement imaging with unbalanced steady-state free precession.* Abstract accepted for presentation at the *International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, Cape Town, South Africa (to be presented, 2026).*

Wallace, T., Morales, M., **Bozdag, B.,** *et al.* (2026) *Dark-blood LGE imaging in patients with implanted cardiac devices using inversion recovery unbalanced SSFP at 3T.* Abstract accepted for presentation at the *International Society for Magnetic Resonance in Medicine (ISMRM) Annual Meeting, Cape Town, South Africa (to be presented, 2026).*

Additional Academic Experience

Oct 2025

Arnold Sommerfeld School on "Quantum Computing – Status and Prospects", Munich
Quantum Valley, Ludwig Maximilian University of Munich

Summer
2021

In2ScienceUK Summer Programme,

Presentations

Feb 2024 **Strain analysis on ferromagnetic domains, Second year presentation**, University of Oxford

Outreach & Professional Development

LEADERSHIP

Oct 2023 - Aug 2024 **University of Oxford, Oxford University Kickboxing Club**, President

TEACHING AND OUTREACH

2021-2022 **St. Dominic's Sixth Form College**, Leader of Learning - Physics