

Roberto Turibio E. K. Martins

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Education

University of São Paulo (USP)

M.Sc. in Physics

São Paulo, Brazil

2026 – present

Federal Institute of São Paulo (IFSP)

B.Sc. in Physics Education

GPA: 8.24/10

São Paulo, Brazil

2021 – 2025

Certification

SENAI Anchieta

Electronics Technician (Auxiliary)

Workload: 80 h

São Paulo, Brazil

2024

American Chemical Society

Scientific Writing and Communication

Workload: 4 h

Online

2023

Research Experience

University of São Paulo (USP)

M.Sc. Research Fellow

FAPESP Fellowship (#2025/26960-8). *Study of phototransfer and thermally assisted mechanisms in potassium feldspars.*

São Paulo, Brazil

2026 – present

Technical University of Denmark (DTU)

Visiting Research Student

FAPESP-BEPE Fellowship (#2024/00890-0). *Time-resolved optically stimulated luminescence of amazonite.*

Roskilde, Denmark

Apr. 2024

University of São Paulo (USP)

Undergraduate Research Fellow

FAPESP-IC Fellowship (#2022/07200-4). *Optical and thermoluminescence properties of Brazilian amazonite.*

São Paulo, Brazil

2022 – 2025

Federal Institute of São Paulo (IFSP)

Undergraduate Research Fellow

PIBIC Fellowship. *Thermoluminescence investigation of minerals from southern Minas Gerais.*

São Paulo, Brazil

2021 – 2022

Technical Skills

Languages: Portuguese (native), English (C1), Spanish (B1)

Programming: Python, R, C/C++, LabVIEW

Scientific Software: HighScore Plus, VESTA

Techniques: XRD, XRF, FTIR, Raman, UV-Vis spectroscopy, TL and OSL

Awards

○ Bernhard Gross Award — XXI B-MRS Meeting (2023), Brazilian Materials Research Society.

○ Honorable Mention for Best Poster — AM-BSF 2023, Brazilian Physical Society.

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Publications

- [1] R. Martins, E. Yoshimura, and N. Trindade, "Optically stimulated luminescence of amazonite using linear modulated technique," *Journal of Luminescence*, vol. 289, p. 121 610, 2026, issn: 0022-2313. DOI: <https://doi.org/10.1016/j.jlumin.2025.121610> [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0022231325005502>
- [2] R. Martins, R. Kunzel, C. Ulsen, E. Yoshimura, and N. Trindade, "Structural, optical and thermoluminescence properties of amazonite," *Radiation Physics and Chemistry*, vol. 223, p. 111 947, 2024, issn: 0969-806X. DOI: <https://doi.org/10.1016/j.radphyschem.2024.111947> [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0969806X24004390>
- [3] R. Martins et al., "Thermoluminescence of rose quartz from minas gerais, brazil," *Radiation Physics and Chemistry*, vol. 209, p. 110 960, 2023, issn: 0969-806X. DOI: <https://doi.org/10.1016/j.radphyschem.2023.110960> [Online]. Available: <https://www.sciencedirect.com/science/article/pii/S0969806X23002050>