ANGELO S. TARZONA

Email: dtarzona3@gatech.edu

EDUCATION

Ph.D. Candidate in Geophysics concentrating in Cryosphere May 2021 – May 2026
Ph.D. Minor in Geospatial and Environmental Planning
Georgia Institute of Technology, Atlanta, GA
GPA: 3.62/4.00
Advisor: Dr. Winnie Chu
Key Courses: Environmental Data Analysis, Land Remote Sensing, and Geovisualization & Geovisual Analytics

SKILLS

Programming Languages: MATLAB, Python
Processing Geophysical Data: ENVI Software, Geogiga Software, Res2Dinv, ResiPy, GPRPy, and GPR-SLICE
Geospatial: ArcGIS and ESRI Packages, QGIS, Google Earth Pro, Agisoft, Flowmapper, Kepler GL, GeoDa, Tableau
Graphics: Adobe Photoshop, Adobe Illustrator, Microsoft Office 365
Formal Languages: English, Tagalog/Filipino

FUNDED GRANT PROPOSALS

Analyzing multi-decadal changes at Ross Ice Shelf through historical SPRI-NSF-TUD and modern NASA/NSF Operation IceBridge and ROSETTA-Ice radar sounding data. Future Investigators in NASA Earth and Space Science and Technology. $150K, August 22, 2022 – August 18, 2025. **Lead FI: A. Tarzona.** Co-Investigator: W. Chu (Advisor)

RESEARCH EXPERIENCE

Graduate Research Assistant, Georgia Institute of Technology
Fourth-year Ph.D. Candidate Summer 2021-Present
Analyzing archival airborne radar data from SPRI-NSF-TUD campaign in Ross Ice Shelf, Antarctica to compare with modern airborne radar data such as NASA's Operation IceBridge & ROSETTA-Ice to observe for multidecadal changes.

MANUSCRIPTS UNDER PREPARATION

Tarzona, A., W. Chu., B. Amaro., A. Altaweel., D.M. Schroeder., M. Siegfried., and H. Verbonceur. Using computer vision to interpret archival airborne radar data collected at Ross Ice Shelf. *Journal of Glaciology.*

Tarzona, A., J. L. Hayes, L. Varner. Using Ground Penetrating Radar and Drone Imagery to Visualize Lost Gravesites at Mount Tabor Cemetery, Mount Holly Springs, PA., *Journal of Archeological Science: Reports*.

CONFERENCE ABSTRACTS

Tarzona A., Chu W., Verboncoeur H., Siegfried M., Schroeder M. D., Altaweel A., Amaro B., Yin R. (2024). Radiometric Interpretation of Archival Airborne Radio Echo Sounding in Ross Ice Shelf, Antarctica., American Geophysical Union Conference, San Francisco, Washington D.C., December 9 – 13, 2024, Abstract #NS33A-1205.

FIELD CAMPAIGNS

Geophysical Field Methods Field Work, GSSI 3000 Ground Penetrating Radar, Zzyzx, CA, USA Spring 2024
Helheim Glacier Field Work, ApRES Recovery, Greenland Summer 2023

REFERENCES

Dr. Winnie Chu, Assistant Professor of Earth and Atmospheric Sciences, Georgia Institute of Technology, 311 Ferst Drive, Atlanta, Georgia 30332-0340, email: wchu38@gatech.edu

Dr. Kristina Keating, Associate Professor of Department of Earth and Environmental Studies, Rutgers University, Newark, 101 Warren Street, Smith Hall, Newark, New Jersey 07102, email: kmkeat@newark.rutgers.edu