

# Donglai Yang

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Earth & Atmospheric Sciences  $\diamond$  Georgia Institute of Technology

## EDUCATION

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| <b>Georgia Institute of Technology, Georgia</b><br><i>Ph.D. student, Earth and Atmospheric Sciences (Advisor: Winnie Chu)</i> | 08/2023 - Present |
| <b>University at Buffalo, New York</b><br><i>M.S. Computational Geosciences (Advisor: Kristin Poinar, Sophie Nowicki)</i>     | 08/2021 - 05/2023 |
| <b>Wesleyan University, Connecticut</b><br><i>B.A. Physics; Earth Sciences (Advisor: Phillip Resor)</i>                       | 08/2017 - 06/2021 |

## PUBLICATIONS

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1. **Yang D.**, Poinar K., Nowicki S., Csatho B., 2024 (submitted) *Characteristics of dynamic thickness change across diverse outlet glacier geometries and basal conditions*. Journal of Glaciology. Preprint: [doi.org/10.31223/X56D72](https://doi.org/10.31223/X56D72)

## CONFERENCE ABSTRACTS

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† represents oral presentations; \* represents poster presentations; no symbol represents presentations by collaborators

1. Mejia J., Poinar K., Meyer C., Chu W., **Yang D.**, 2023. *Investigating Observations and Modeling to investigate Firn Aquifer Hydrology and its Role in Crevasse Propagation on Helheim Glacier*. AGU 2023 Fall Meeting conference.
2. † **Yang D.**, Poinar K., Nowicki S., 2022. *Synthetic glacier experiments reveal controls on ice dynamic thinning variability*. AGU 2022 Fall Meeting conference.
3. † **Yang D.**, Poinar K., Nowicki S., 2022. *Modeling characteristic surface elevation changes reveal dominant process control*. NASA ICESat-2 Science Meeting.
4. \* **Yang D.**, Resor P., 2022. *Numerical Modeling of Frictional Melting Dynamics Constrained by Surface Micro-Roughness*. EGU General Assembly 2021.

## HONORS & AWARDS

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Pegrum Professional Development Award – 2023  
*Phi Beta Kappa* National Honor Society– 2021  
*High Honor* in Earth & Environmental Sciences – 2021  
College of Integrative Science Summer Research Fellowship – 2020  
College of Environment Research Fellowship – 2019  
Dean’s List, Undergraduate Studies – 7 Semester

## TEACHING EXPERIENCE

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### **Georgia Institute of Technology**

Graduate Teaching Assistant, Earth Processes Lab *EAS2600*  
*Undergraduate-level introduction to physical processes on Earth*

### **University at Buffalo**

Graduate Teaching Assistant, Natural Hazards and Climate Change *GLY105*  
*Undergraduate-level introduction to climate change, geology, and hazards*

### **Wesleyan University**

Course Assistant, Modeling the Earth and Environment *EES375*  
*Senior undergraduate-level numerical modeling of geophysical processes*

## WORK EXPERIENCE

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### **Sust Global**

Climate Data Science Intern, 06/2022 - 08/2022  
*Engineering model-based future physical climate risk index for heatwave, extreme precipitation, and sea level rise.*

## RELEVANT COURSES

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### **Undergraduate level**

◇ Thermal and Statistical Mechanics ◇ Electrodynamics ◇ Modeling the Earth and Environment

### **Graduate level**

◇ Numerical Analysis and Methods for PDE ◇ Finite Element Methods ◇ Continuum Mechanics ◇ Machine Learning ◇ Glaciology ◇ Geophysical Electromagnetic Methods