

Erick Jimenez Berumen

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Address: 655 Commonwealth Ave. Δ Boston, MA Δ 02215 Δ USA

Research Interests

Computer Graphics Δ Geometry Processing Δ Discrete Differential Geometry

Education

2023–28* **Ph.D. Computer Science** **Boston University**
2019-23 **B.Sc. Applied and Computational Mathematics** **California Institute of Technology**

Research Experience

2023 *Graduate Research Fellow*, Advisor: [Edward Chien](#) **Boston University**
2022 *Summer Undergraduate Research Fellow*, Advisor: [Peter Schröder](#) **Caltech**
2021 *Summer Geometry Initiative Research Fellow* **MIT**

Awards & Honors

2023 Boston University Dean's Fellowship
2019-2023 Questbridge National College Match Scholarship (Full-Ride)

Publications

† → Equal contribution

Papers

1. Mitra, R., **Jimenez Berumen, Erick**, Hofmann, M. & Chien, E. *Singular Foliations for Knit Graph Design* in *ACM SIGGRAPH 2024 Conference Proceedings* (2024), 1–9.
2. Guṭan[†], O., Hegde[†], S., **Jimenez Berumen, Erick**, Bessmeltsev, M. & Chien, E. Singularity-Free Frame Fields for Line Drawing Vectorization. *Computer Graphics Forum*. ISSN: 1467-8659 (2023).

Presentations

Posters

1. Mitra, R., **Jimenez Berumen, Erick**, Hofmann, M. & Chien, E. *Singular Foliations for Knit Graph Design 2024*.

*Expected.

Teaching

Boston Univeristy

Spring 2025 Graduate Teaching Fellow, Probability in Computing (CS 237)

California Institute of Technology

2023 Undergraduate Teaching Assistant, GPU Programming (CS 179)
2022 Undergraduate Teaching Assistant, Discrete Differential Geometry (CS 177)
2021 Undergraduate Teaching Assistant, Introduction to Computer Graphics (CS 171)

Last updated: March 29, 2025