

PUMA: Practicum for Undergraduate MAtheematicians in Topology

Saturday April 12, 2025

- 8:00–8:50 *Check-in/Breakfast (hosted by IPAM)*
- 8:50–9:00 *Welcome and Opening Remarks*
- 9:00–10:00 **Helen Wong** (Claremont McKenna College)
Expository Talk: Knotting in proteins
- 10:00–11:00 **Bahar Acu** (Pitzer College)
Tutorial Lecture #1: Surfaces and their classification
- 11:00–12:00 *Problem Session #1*
- 12:00–1:00 *Lunch (hosted by IPAM)*
- 1:00–2:00 **Bahar Acu** (Pitzer College)
Tutorial Lecture #2: Simplicial homology and Delta Complexes
- 2:00–3:00 *Problem Session #2*
- 3:00–3:30 *Break*
- 3:30–4:30 **Claudio Gómez-González** (Carleton College)
Expository Talk: Plants of slow growth: reducing coefficients and sustaining mathematics
- 4:30–5:30 *Professional development session #1*

Sunday April 13, 2025

- 8:00–9:00 *Check-in/Breakfast (hosted by IPAM)*
- 9:00–10:00 **Vin de Silva** (Pomona College)
Expository Talk: How algebraic topology can help teams of robots.
- 10:00–11:00 **Jose Perea** (Northeastern University)
Tutorial Lecture #3: The persistent homology of data
- 11:00–12:00 *Problem Session #3*
- 12:00–1:00 *Lunch (hosted by IPAM)*
- 1:00–2:00 **Sarah Tymochko** (University of California, Los Angeles (UCLA))
Expository Talk: Applications of Topological Data Analysis to Resource Coverage
- 2:00–3:00 *Professional development session #2*



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