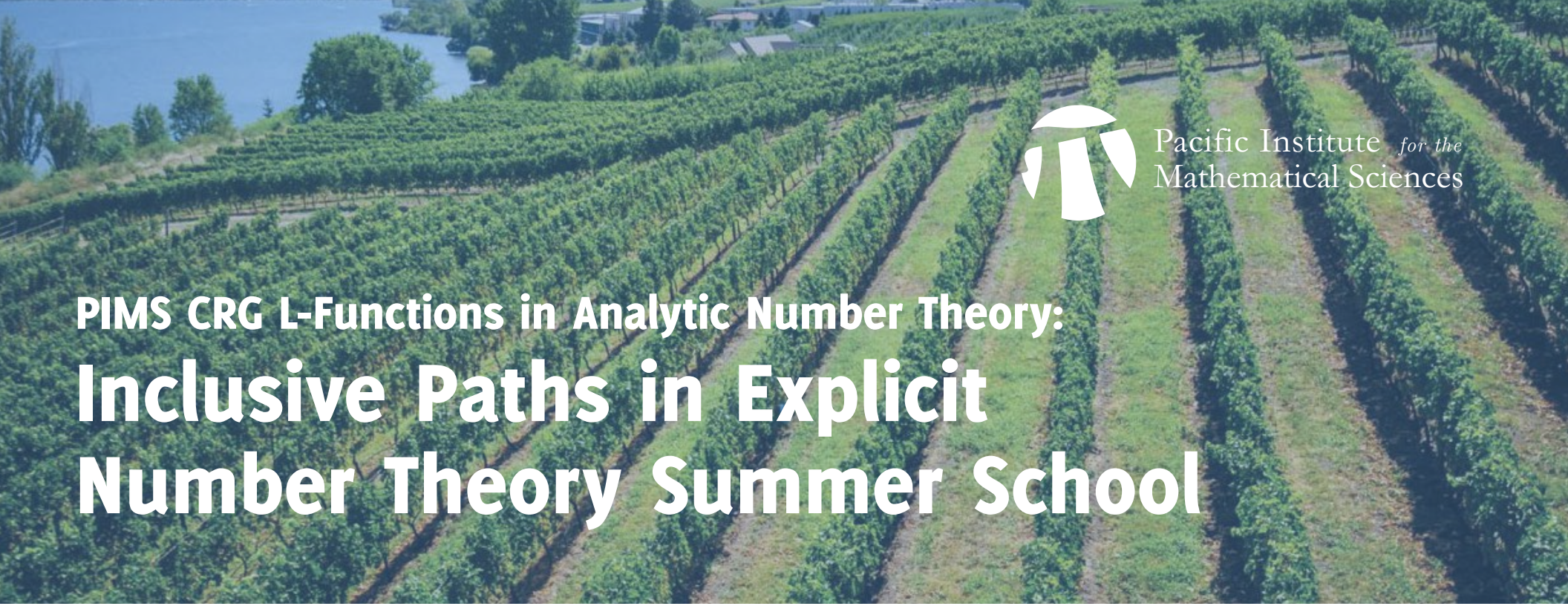

Pacific Institute *for the* Mathematical Sciences

## PIMS CRG L-Functions in Analytic Number Theory:

# Inclusive Paths in Explicit Number Theory Summer School

July 2–15, 2023 | BIRS at University of British Columbia–Okanagan

**The "Inclusive Paths in Explicit Number Theory" summer school is one of the highlight events organized by the PIMS-funded Collaborative Research Group (CRG) "L-functions in Analytic Number Theory". It is a two-week event hosted by the Banff International Research Station at the UBC Okanagan campus in Kelowna, B.C., and taking place from July 2–15, 2023 (see also the BIRS website for the summer school).**

**After an initial week of training, the participants will have the opportunity to work on cutting-edge problems in a collaborative context with leading and emerging researchers.**

### ORGANIZERS

- Alia Hamieh, University of Northern British Columbia
- Ghaith Hiary, Ohio State University
- Habiba Kadiri, University of Lethbridge
- Allysa Lumley, York University
- Greg Martin, University of British Columbia

### WEEK 1 (JULY 3–7):

The first week of IPENT will have mini-courses and learning activities delivered in a hybrid format. The courses will cover several topics in explicit number theory such as Chebotarev's density theorem, zero-density theorems, subconvexity, zero-free regions and repulsion, character sums, and applications of explicit results. The first week will also include activities that focus on professional development and equity, diversity, and inclusion (EDI). Week 1 is in hybrid format. See the Summer school schedule page for a list of instructors and lecture topics.

### WEEK 2 (JULY 10–14):

The second week of IPENT will have organized group research projects in explicit number theory led by senior researchers. The list of projects has been posted on the Summer school resources page. Week 2 is in person only.

**For more information visit:**
https://www.pims.math.ca/scientific-event/230702-ipentss

NSF | Banff International Research Station for Mathematical Innovation and Discovery | NSERC CRSNG | UBC The University of British Columbia Okanagan Campus | Number Theory Foundation NTF ζ(ρ) = 0