



## Andree Coschizza

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- Objective** Undergraduate Physics student entering their final year of study pursuing a placement for the Summer Research School and Internship at the Perimeter Institute of Theoretical Physics.
- Education** **University of British Columbia**, B.Sc. Physics, 3<sup>rd</sup> year  
Expected Completion: 2021
- Relevant Courses:**
- PHYS 319: Electronics Laboratory – coding in C, Assembly to program microprocessors
  - MATH 317: Calculus IV – parametrizations, inverse functions, Gauss, Green and Stokes Theorem
  - PHYS 210: Introduction to Computational Physics – applications of Python
  - ASTR 200: Frontiers in Astrophysics – planet, solar system, and star formation, cosmological principles
  - CPSC 110: Computation, Programs and Programming – programming and computation structures
- Work Experience**
- 2019 **Undergraduate Researcher**, Julius-Maximilians-Universität Würzburg
- Working with the topological insulator: V doped BiSb, Te, to investigate the Quantum Anomalous Hall Effect
  - Fabricating nanostructures using photolithography in a clean room environment
  - Using Labview to run experiments and characterize hall bars in He4 environments
  - Analyzing, comparing and graphing material data using Origin
- 2018-2019 **Undergraduate Teaching Assistant for PHYS 100/101**, UBC
- Conducting weekly tutorial sessions for PHYS 100/101 students, marking examinations, and being available to students during office hours
  - Facilitating tutorials and experiments, and promoting student engagement by encouraging discussion on course material
- 2018-2019 **Expediter and Server**, Bridges
- Setting up for events, coordinating with event planners and decorators, and exhibiting professionalism in a high class dining environment
  - Organizing the efficient delivery of multiple course dinners for functions of over 100 people
- 2017-2018 **Maker Girls Instructor**, Geering Up
- Co-planning weekly STEM focused lesson plans for girls age 11-15
  - Facilitating science and engineering based club sessions in community environments
  - Being an ambassador for women in science, providing opportunities for younger girls to pursue education in science and engineering



## Volunteer Experience

- 2018 **Vancouver Island Health Volunteer**, Queen Alexandra Center for Children's Health
- Leading workshops alongside an occupational therapist to assist children (ages 7-11) with mental and cognitive disabilities
  - Leading exercise sessions for patients with mobility conditions (ex. Strokes, diabetes, muscle dysfunction)

## Skills and Qualifications

### Technical Skills / Lab Skills

- Constructing AC/DC circuits
- Measuring systems using multimeters, oscilloscopes, function generators, and lock-in amplifiers
- Analyzing and fitting experimental data using Python and Origin
- Fabricating nanodevices in clean room settings
- Experience using cryostats and repairing sample sticks
- Experience with machine shop tools (lathes, milling machines)

### Computational Skills

- Proficient in graphing, modelling and fitting data with Python
- Simulating physical concepts with animation using Python
- Programming microcontrollers using C and Assembly

### General Skills

- Strong technical written and oral communication skills (English)
- Ability to work both independently and in group settings
- Adaptable, dedicated and eager to learn

## Extracurriculars

- 2018 **Research Team Member**, UBC Mars Colony Design Team
- Reorganizing team information and creating templates to ensure easily accessible data
  - Communicating with engineering team leaders to research relevant topics in their area

- 2018 **Team Member**, Project U&G
- Practising 5 hrs/week and competing with Project U&G, a UBC based hip hop dance team
  - Teaching hip hop classes for students under UBC's Unlimited Dance Club

## Achievements

- 2016 ◦ Dogwood District Authority Award
- 2016 ◦ BC Passport to Education
- 2014 ◦ Michelle Lynne Rosa Scholarship Award

## Hobbies & Interests

In my free time, I participate in dance classes for ballet, hip hop, and jazz. Having danced for over fifteen years, training has not only been a creative outlet, but has also taught me lessons in hard work and discipline. This has allowed me to practice with groups in Vancouver, and to train abroad with The Odyssey dance crew in Germany. I also enjoy running, bouldering and listening to podcasts.