

Isaac Samuel Racine

Leuven, Belgium

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Starting date: early September 2023 | Open to relocating | Open to language classes

EDUCATION

Katholieke Universiteit (KU) Leuven, Leuven, Belgium

Expected July 2023

Master of Science in Bioinformatics

- Current GPA: 17/20 (Honors)
- Never needed to retake an exam
- Thesis under the supervision of Isabelle Cleynen (PI for Laboratory of Complex Genetics in the Department of Human Genetics) and Johan Van Weyenbergh (Senior Scientist at the Rega Institute)
 - Experience with imputation, GWAS, polygenic risk scores, accounting for ancestry and modeling
 - Softwares: PLINK, samtools, PRSice, lassosum, TRACTOR and many more tools
 - Practice with implementation command line tools for specific small tasks
- Proficient in R, intermediate in Python, unix and Java; experience with HPC, Conda, Git, MatLab, SQL, snakemake
 - Exposure with application of bioinformatic tools to large scale omic data sets (including NGS data for genome, transcriptome and metabolomics) and protein modeling software
 - Analyses included, but not limited to: RNAseq (DGE), ChIP/ATAC seq, functional annotation evolutionary phylogenetics, population genetics, network expression (WGCAN)
 - Comfortable using and querying several different online biological databases
- Versed in machine learning, data science and statistical modeling
 - Exposure to Bayesian inference
 - Specific course in neural network modeling
- Semester long project developing a pipeline in snakemake for automated polygenic risk score calculations using different algorithms

University of Vermont (UVM), Burlington, VT USA

Graduated May 2021

Bachelor of Science in Biological Sciences, Minor in Statistics

- Final GPA: 3.76/4.0
- Plant genetics research work under Jill Preston (PI for the Laboratory of Plant Evolution and Development)
 - Learned basic genetic laboratory practices: PCR and cloning
 - Practiced experimental design
 - Performed a semester long research topic on motif enrichment from a diverse clade of plants to determine which motifs are important in the vernalization pathways
- Semester abroad in Dortmund, Germany Spring/Summer of 2020

TU Dortmund, Dortmund, Germany

Spring 2020

- Occurred during the Coronavirus pandemic which allowed me to find strength in myself in a new environment with regulations changing frequently
- Made strong relationships with local Germans and was well integrated into society despite the ongoing circumstances

Colchester High School, Colchester, VT USA

Graduated June 2017

- Final GPA: 4.0/4.0
- Gave commencement speech and apart of National Honors Society

WORK EXPERIENCE

Sweetwaters, Burlington, VT USA

April 2021 - August 2021

Server

Manager: David Melincoff +1 802-233-1818

- Most fast paced and largest staffed restaurant I have worked in
- Increased my multitasking skills and quick problem solving during stressful situations
- Further strengthened my ability to work in a team towards a common goal
- Became even more comfortable with local beer and wine recommendations to tourists

Istanbul Kebab House, Burlington, VT USA

August 2019 - February 2020

Server and Bartender

Manager: Hasan Oktay +1 802-857-5091

- Increased my communication abilities due to the large diversity in the clientele
- Fast paced, with several table turnovers in a night and pagers to tell us when food is ready to be ran
- Introduced me to several new cocktails, wine and yet another POS system

Vermont National Country Club, South Burlington, VT USA

August 2018 - February 2020

Server and Bartender

Manager: Brittany Chase +1 802-264-9403

- Waited tables, usually dealing with several coursed meals and having to plan the timing of them
- Would occasionally work events, including weddings, funeral services, birthday parties or anytype
- Provided bottle service when ordered and gained experience with drink orders
- Learned how to create and mix wonderful cocktails

LEADERSHIP EXPERIENCE

Healthcare Service Trip Pokhara, Nepal

May 2018 - June 2018

Volunteer

- Help establish safe and clean teaching methods within the preschool environment
- Taught English along with basic first aid

College of Agriculture and Life Sciences Student Representative, Burlington, VT

Fall 2017 - Spring 2020

- Attending admitted student visit days to talk to prospective students
- Organizing events (i.e. workshops and informative lectures)
- Staffing events and attending meetings

GOALS

- Keen, focused, personable scholar motivated to continue researching / working in quantitative genetics and genomics
- Hoping to find a career that has opportunities for continual growth in my knowledge as well as my work responsibilities

ADDITIONAL

- Native English speaker with an A2 German and French