

Isaac Samuel Racine

Leuven, Belgium

Personal Email: isaac.racine@gmail.com

EDUCATION

Katholieke Universiteit (KU) Leuven, Leuven, Belgium

Expected July 2023

Master of Science in Bioinformatics

- Current GPA: 16.7/20 (never needed to retake an exam)
- Thesis under the supervision of Isabelle Cleynen (PI for Laboratory of Complex Genetics at KU Leuven) and Johan Van Weyenbergh
 - Experience with GWAS, polygenic risk scores, accounting for admixed individuals in analyses
 - Softwares: PLINK, PRSice, lassosum, tractor, PCAdmix
 - Practice with implementation command line tools for specific small tasks
- Intermediate in Python, R and Java; experience with unix, HPC, Conda, Git, MatLab, SQL, snakemake
 - Practicing 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, ChIP/ATAC seq, evolutionary phylogenetics, population genetics, DGE
- Versed in machine learning, data science and statistical modeling
 - Exposure to Bayesian inference
- Semester long project developing a pipeline for automated polygenic risk score calculations
- Had to adjust to another new school system, yet this did not intimidate me as I am on track for graduating with honors and was offered to join the Laboratory of Complex Genetics as a PhD student

University of Vermont (UVM), Burlington, VT USA

Graduated May 2021

Bachelor of Science in Biological Sciences, Minor in Statistics

- Current GPA: 3.76 GPA (never needed to retake an exam)
- Plant genetics research work under Jill Preston
 - Learned basic genetic laboratory practices: PCR and cloning
 - Practiced experimental design
 - Performed a semester long research topic on identifying conserved motifs along orthologs of vernalization related genes in grasses
- Semester abroad in Dortmund, Germany Spring/Summer of 2020
- Strengthened my time management skills given I juggled being a full time student and working part time
- Several programming courses (R, Python, Java, etc) and several statistics classes

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, which allowed me to be a beginner German speaker and experienced the culture, pairing well with the social science electives I took there

Colchester High School, Colchester, VT USA

Graduated June 2017

- 4.0 GPA
- Gave commencement speech, apart of National Honors Society, varsity cross country ski team captain

WORK EXPERIENCE

Sweetwaters, Burlington, VT

April 2021 - August 2021

Server

Manager: David Melincoff +1 802-233-1818

- Most fast paced the largest staffed restaurant I have worked in
- Practiced how to handle stressful situations even during the busiest of times
- Learned another POS system (Squirrel)
- Became even more comfortable with local beer recommendations

Istanbul Kebab House, Burlington, VT

August 2019 - February 2020

Server and Bartender

Manager: Hasan Oktay +1 802-857-5091

- People speaking several different languages and from different cultures came through the doors, which increased my communication abilities
- Fast paced, 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

August 2018 - February 2020

Server and Bartender

Manager: Brittany Chase +1 802-264-9403

- Waited tables, usually dealing with several coursed meals
- 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

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

Fall 2017 - Spring 2020

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

Often training new employees in my old jobs and taking the lead during group projects to ensure that goals are met

GOALS

- Keen, focused, personable student looking for challenging research and career opportunities to continue sharpening my bioinformatic skills (ideally related to human/plants)
- Hoping to find a position that allows me to be fully remote, partially remote and or travel

LANGUAGE

- Native English speaker
- A2 level in German as well as French, open to expanding my language knowledge

SKILLS

- High communication and collaboration skills from the many years of restaurant experience
- Able to set achievable goals and deadlines