

# Alexander **Vonderschmidt**, MS, RDN

**Doctoral Researcher** — Population Health & Sustainable Food Systems

Dynamic researcher skilled in bridging epidemiological analysis with sustainable food systems to address public & environmental health challenges. Committed to advancing research and policy development, I leverage advanced analytical methods including microsimulation modeling and machine learning to inform health and food policy. Adept at managing complex project initiatives, I effectively balance doctoral research alongside impactful government consulting and a competitive joint-country fellowship.

## RESEARCH & TECHNICAL EXPERIENCE

### Doctoral Researcher

Sep 2022 - present

The University of Edinburgh | *Edinburgh, Scotland*

- Employ microsimulation modelling to predict health and environmental impacts of diet transitions, informing governmental policy in the UK
- Leverage integrated machine learning techniques to enhance accuracy of diet—disease risk prediction and develop a novel model for anemia risk prediction
- Conduct large-cohort data analysis of dietary patterns & food consumption trends

### Research Consultant

Sep 2023 - present

ClimateXChange | *Edinburgh, Scotland*

- Co-investigator of £50,000 grant: *Understanding the climate impact of food consumed in Scotland*, resulting in government report & policy workshops
- Lead systematic review on trends in Scottish consumption patterns and evaluation of resultant direct and indirect environmental impacts; 7,000+ publications screened

### Doctoral Fellow, Lower Saxony-Scotland Fellowship

Apr 2023 - present

European Centre for Advanced Studies | *Lüneburg, Germany*

- Created a project analyzing international global food self-sufficiency and trade dependencies with implications for governmental policy & sustainable agriculture

### Graduate Research Assistant → Research Assistant

Jun 2020 - Aug 2022

Cornell University | *Ithaca, NY*

- Led the design and implementation of a nutrigenomics assay methodology pipeline for an NIH R01 grant project, coordinating with multiple labs and research teams
- Performed advanced multivariate regression analysis and from-scratch dietary pattern score coding, investigating diet—lung function associations
- Trained through the WHO/Cochrane/Cornell Institute for Systematic Reviews in Nutrition for Global Policy Making
- Cochrane systematic review co-author: contributed to 10,000+ publications screened, data extraction, analysis, report writing, GRADE risk of bias assessment

### Graduate & Undergraduate Teaching Assistant

Jul 2017 - May 2021

Cornell University ('20 - '21) & Kansas State University ('17 - '19)

- Courses taught: *Nutrition and Disease* (NS 4410) & *Nutrition, Health, and Vegetarian Diets* (NS 3030) at Cornell, *Nutrition and Health* (FNDH 340) & *Food Production Management* (FNDH 342) at Kansas State

### Dietetic Intern

Aug 2019 - Jun 2020

Cornell University & Strong Memorial Hospital | *Ithaca & Rochester, NY*

- Clinical rotations: ICU, Oncology, Pediatric (+PICU & NICU), Endocrine, Cardiac, Transplant, and weekly volunteer evening shifts at community clinic
- Assisted in the development and implementation of a 'Healthy Pantry Initiative' for Foodlink's network of 200+ Upstate NY food pantries

Strategic | Activator | Futuristic | Communication | Individualization

(Clifton Strengths - Gallup)

## CONTACT

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## SKILLS

### Techniques:

- Epidemiological analysis
- Biostatistics
- Clinical nutrition
- Simulation modelling
- Disease risk prediction
- Machine learning algorithms
- Large cohort analysis, including complex survey-weighted designs
- Systematic review (+Cochrane) and evidence synthesis
- Language proficiencies:
  - French, fluent (C2)
  - German, novice (B1)

### Tools and frameworks ([GitHub](#)):

- R
- Python
- SAS
- HTML
- Covidence & RevMan
- Microsoft suite

## EDUCATION & CREDENTIALS

The University of Edinburgh

**PhD - Food Systems**, 2025 (*anticip.*)

Cornell University

**MS - Nutritional Epidemiology**, 2021

**RDN - Registered Dietitian**

**Nutritionist**, 2020 ([#86106159](#))

Kansas State University

**BS - Dietetics & Nutrition**, 2019

**BA - French Literature**, 2019

+Université Lumière-Lyon-II, 2018

Full CV including publications, awards, honors, etc. available at [axvonder.com](http://axvonder.com)