

LIAM FITZGERALD
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Education

University of Washington (GPA: 3.61) March 2015

- **BS** (Biology: Molecular, Cellular, and Developmental)
- **BA** (English: Creative Writing)

Research Experience

Research Assistant Intern September-December, 2013

Neiker-Tecnalia Biological Research Institute Derio Spain

- Participated in a project developing a novel immunosorbent assay for detecting Mycobacteria
- Applied DNA extraction and quantitative PCR to deer intestinal tissues with known infections, assessing if PCR can reliably diagnose Mycobacteria infection in wild deer
- Participated in various other research projects at the institute, applying skills such as Ficoll-Paque Isolation and collecting blood samples from animals
- Wrote an article reviewing recent models of *in vitro* Mycobacteria granuloma and saw it through to publication including peer-review

Research Assistant Intern June-September, 2012

University of Washington Hill Ris Lambers Lab Seattle, WA

- Participated in a study determining what factors influence distribution of tree species in Mount Rainier National Park
- Applied skills such as measuring and coring trees, counting seedlings, separating seeds from duff, and collecting data from digital climate tracking devices

Publications

Liam E. Fitzgerald, Naiara Abendaño, Ramon A. Juste, and Marta Alonso-Hearn. (2014). Three-Dimensional In Vitro Models of Granuloma to Study Bacteria-Host Interactions, Drug-Susceptibility, and Resuscitation of Dormant Mycobacteria. *BioMed Research International* 2014:623856. PMID: 24967387.

Jose M. Prieto, Ana Balseiro, Rosa Casais, Naiara Abendaño, **Liam E. Fitzgerald**, et al. (2014). A Sensitive and Specific Enzyme-linked Immunosorbent Assay for Detecting Serum Antibodies against Mycobacterium avium subsp. Paratuberculosis in Fallow Deer (*Dama dama*). *Clinical and Vaccine Immunology* 21:1077-1085. PMID: 24872517.

Professional Experience

Manuscript Reviewer Intern September 2014 – Current
Wales Literary Agency

- Reviewing fiction and nonfiction manuscripts under consideration for representation

Writing Assistant Intern June 2014 – Current
University of Washington Olavarria Lab

- Independently writing an article reviewing recent studies on the impact of blindness on visual pathway development

Restoration and Trail Crewmember

October 2010 – October 2011

Washington Conservation Corps

- Restored nature trails and natural areas in Seattle City Parks in a crew of six

Campaign Coordinator

January 2010 – March 2010

Washington Public Interest Research Group

- Trained and Directed 20 students in collecting hundreds of petition signatures and delivered them to the office of Senator Maria Cantwell

Skills

Laboratory Skills

PCR, gel electrophoresis, DNA extraction, gram straining, Ficoll-Paque isolation, spectrometry, lysing cells, oil immersion microscopy, animal dissection, centrifugation, vortexing, and collecting animal blood samples

Writing and Communication

Writing and editing scientific papers, writing and speaking basic Spanish, and working with non-native English speakers

Computer Skills

Experienced with PCs, Macs, Word, Excel, PowerPoint, and searching online databases such as PubMed

References

References Available on Request