

# JACQUELINE R.M.A. MAASCH

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## EDUCATION

2019 – Present	<b>Master of Computer &amp; Information Technology</b> <b>University of Pennsylvania</b> , Philadelphia, PA, USA GPA 4.0/4.0   Department of Computer & Information Science
2016	<b>Bachelor of Arts</b> <b>Smith College</b> , Northampton, MA, USA Major Anthropology, Minor Environmental Science & Policy GPA 3.97/4.0 — Summa Cum Laude — Phi Beta Kappa — Sigma Xi

## KNOWLEDGE & SKILLS

*Frequently using* 📐 R; 📐 Java; 📐 Excel; 📐 L<sup>A</sup>T<sub>E</sub>X. *Actively learning* 📐 C; 📐 JavaScript; 📐 Assembly.  
*Coursework (G)* Intro Software Development; Mathematical Foundations of Computer Science; Intro Computer Systems. *(UG)* Senior Seminar in Human Genetics; Evolution; Statistics; Frontiers in Biomath.

## RESEARCH EXPERIENCE

10.2017 – 07.2019	<b>Research Associate   Smith College, Biological Sciences</b> , Northampton, MA <i>PI: Dr. Steven A. Williams.</i> Gates Foundation reference laboratory investigating the molecular biology of agents causing neglected tropical diseases (NTDs).
11.2016 – 05.2017	<b>Next-Generation Sequencing Technician   PathoQuest</b> , Paris, France <i>PI: Dr. Éric Cabannes.</i> Institut Pasteur spin-out developing blood-based metagenomic NGS diagnostics for infectious disease.
02.2016 – 09.2017	<b>Molecular Diagnostic Technician   Mass. General Hospital</b> , Cambridge, MA <i>PI: Dr. Heidi Rehm.</i> Harvard-affiliated CLIA laboratory providing clinical diagnostics for genetic diseases and clinical research support in the Human Genetics Unit.
06.2014 – 12.2015	<b>Research Assistant   Cornell University, Plant Breeding &amp; Genetics</b> , Ithaca <i>PI: Dr. Rebecca Nelson.</i> Gates and McKnight Foundation funded laboratory investigating plant pathology, plant genetics, and agroecology.

## SELECT PUBLICATIONS & PRESENTATIONS

**2019** Pilotte N, **Maasch J**, Easton AV, Dahlstrom E, Nutman TB, Williams SA. Targeting a highly repeated embryonic DNA sequence for improved real-time PCR-based detection of *Ascaris* infection in human stool. *PLOS Neglected Tropical Diseases* 13(7): e0007593. 🔗

**2019** **Maasch J**, Arzika AM, Cook C, Lebas E, Pilotte N, Grant JR, Williams SA, Keenan JD, Lietman TM, Aiemjoy K (presenter). Rectal swabs for molecular detection of *Giardia duodenalis*. *Proceedings from the Annual Meeting of the American Society of Tropical Medicine and Hygiene*. National Harbor, MD.