JACQUELINE R.M.A. MAASCH

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EDUCATION

2019 – Present
Master of Computer & Information Technology
University of Pennsylvania, Philadelphia, PA, USA
Department of Computer & Information Science | School of Engineering & Applied Science

2016
Bachelor of Arts
Smith College, Northampton, MA, USA
Major Anthropology, Minor Environmental Science & Policy
GPA 3.97/4.0 — Summa Cum Laude — Phi Beta Kappa — Sigma Xi

KNOWLEDGE & SKILLS

Frequent use R; Java; Excel; LaTeX. *Infrequent use* 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
Research Associate | **Smith College, Biological Sciences**, Northampton, MA
PI: Dr. Steven A. Williams. Gates Foundation reference laboratory investigating the molecular biology of agents causing neglected tropical diseases (NTDs).

11.2016 – 05.2017
Next-Generation Sequencing Technician | **PathoQuest**, Paris, France
PI: Dr. Éric Cabannes. Institut Pasteur spin-out developing blood-based metagenomic NGS diagnostics for infectious disease.

02.2016 – 09.2017
Molecular Diagnostic Technician | **Mass. General Hospital**, Cambridge, MA
PI: Dr. Heidi Rehm. Harvard-affiliated CLIA laboratory providing clinical diagnostics for genetic diseases and clinical research support in the Human Genetics Unit.

06.2014 – 12.2015
Research Assistant | **Cornell University, Plant Breeding & Genetics**, Ithaca
PI: Dr. Rebecca Nelson. Gates and McKnight Foundation funded laboratory investigating plant pathology, plant genetics, and agroecology.

SELECT PUBLICATIONS

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 Benjamin-Chung J, Pilotte N, Ercumen A, Grant JR, **Maasch J**, et al. Comparison of multi-parallel qPCR and Kato-Katz for detection of soil-transmitted helminth infection among children in rural Bangladesh. Under review: *PLOS Neglected Tropical Diseases.*