Kealyssa Makana Castillo-Martin

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EDUCATION

University of Maryland, College Park, MD — Expected May 2020

- **M.S.** in Computer Science — **GPA**: 3.7/4.0
- **Advisor:** Jonathan Katz

Reed College, Portland, OR — May 2018

- **B.A.** in Mathematics-Computer Science — **GPA**: 3.6/4.0
- **Honors:** Phi Beta Kappa, Commendation for Excellence in Scholarship
- **Thesis:** Bridging Natural Language and SMT Solvers, from Grammatical Framework to SBV

RESEARCH EXPERIENCE

Graduate Research Assistant — *University of Maryland,* 2019-Present

- Developing communication-efficient protocols for threshold private set intersection.
- Investigating theoretical guarantees for pool-based active learning in adversarial setting.
- Designing a scalable content determination system (in collaboration with Facebook Research).
- **Focus:** Cryptography, security, privacy, adversarial machine learning, secure multiparty computation.

Undergraduate Researcher, REU-CAAR — *University of Maryland,* 2017

- Designed and implemented a self-interactive model trained on Quiz Bowl Clues with PyTorch.
- Investigated questions such as information retrieval and efficacy of different loss models.
- **Advisor:** Hal Daumé III
- **Focus:** Machine learning, query generation and reformulation, modeling conversation history.

WORK EXPERIENCE

Teaching Assistant — *University of Maryland,* 2018-2019

- Assistant for Algorithms and Cryptology; hosted office hours and graded assignments and examinations.

Web Development Intern — *Wieden & Kennedy,* 2018

- Began transitioning W&K internal sites from .NET framework to Angular. Completed debugging tasks.

Teaching Assistant and Individual Tutor — *Reed College,* 2016-2018

- Assistant for Algorithms and Data Structures, Computability and Complexity, Computer Science II, and Introduction to Computer Science.
- Directed lab sections for Computer Science I & II.

LEADERSHIP

Cryptography Reading Group Organizer — *UMIACS,* 2019-Present

Advisory Committee Member — *Iribe Initiative for Diversity in Computing,* 2018-Present

- Enacting plans for increasing minority enrollment and creating a more inclusive department.

Individual and Group Mentor — *Maryland Center for Women in Computing,* 2018-Present

- Working with women undergrads, fostering an inclusive community in the Computer Science Department.

AWARDS AND HONORS

AISES Intel Growing the Legacy Scholarship	*Intel,* 2019-2020
AISES VGT Scholarship	*VGT an Aristocrat Company,* 2019-2020
Dean's Fellowship	*University of Maryland,* 2018-2020
Japanese Critical Language Scholarship	*U.S. State Department,* 2016
National Science Foundation S-STEM Scholar	*Reed College,* 2015-2018

SKILLS

Programming Languages: Proficient in *Python, R.* Prior experience in *Haskell, C++, C, Go, Java*
Foriegn Languages: Japanese (intermediate), Hawaiian (novice)
Qualities: self-motivated, critical thinker, unafraid of asking questions, excited to learn, empathetic listener