$\begin{array}{c} \textbf{Cong Ma} \\ \textbf{congm1@andrew.cmu.edu} \end{array}$

| EDUCATION | Carnegie Mellon University Ph.D. in Computational Biology Advisor: Carl Kingsford | 2015 - Present |
|---------------------|--|-------------------------|
| | Zhejiang University BS Applied Mathematics | 2011 - 2015 |
| EMPLOYMENT | Internship at Bristol Myers Squibb Jun 2018 - Aug 2018 Translational Bioinformatics-Single Cell Sequencing Analyses Intern Program | |
| PUBLICATION | 1. Cong Ma and Carl Kingsford. Estimating mutual information under measurement error. $BioRxiv$, page 852384, 2019 | |
| | 2. Cong Ma, Hongyu Zheng, and Carl Kingsford. Finding ranges of optimal transcript expression quantification in cases of non-identifiability. <i>BioRxiv</i> , 2019 | |
| | 3. Cong Ma and Carl Kingsford. Detecting, categorizing, and correcting coverage anomalies of rna-seq quantification. <i>Cell Systems</i> , 9(6):589–599, 2019 | |
| | 4. Yutong Qiu, Cong Ma, Han Xie, and Carl Kingsford. Detecting Transcriptomic Structural Variants in Heterogeneous Contexts via the Multiple Compatible Arrangements Problem. In 19th International Workshop on Algorithms in Bioinformatics (WABI 2019), volume 143, pages 18:1–18:19, 2019 | |
| | 5. Cong Ma, Mingfu Shao, and Carl Kingsford. SQUID: transcriptomic structural variation detection from RNA-seq. <i>Genome Biology</i> , 19(1):52, 2018 | |
| | 6. Fan Wu, Cong Ma, and Cheemeng Tan. Network motifs modulate druggability of cellular targets. <i>Scientific Reports</i> , 6, 2016 | |
| TALK & POSTER | \bullet Cong Ma. SQUID: Transcriptomic structural variation detection from RNA- seq. $ISMB,~2018$ | |
| | • Cong Ma. SQUID: Transcriptomic structural variation detection from RNA- seq. Genome Informatics, 2017 | |
| | \bullet Cong Ma and Carl Kingsford. Detecting anomalies in RNA-seq quantification. $RECOMB,2019$ | |
| TEACHING | TA for 02712 Computational Methods for Biological Model 2016 | ing and Simulation Fall |
| | TA for 02710 Computational Genomics | Spring 2017 |
| ACADEMIC SERVICE | conference reviewer: RECOMB'15, RECOMB'16, WABI'16, RECOMB'17, RECOMB'17, ISMB'17, RECOMB'18, ISMB'18, RECOMB'19, ISMB'19, RECOMB'20 journal reviewer: Plos Compbio, Cell Systems CPCBGSA: senate for 2017 - 2019 | |

 ${\bf Graduate\ Student\ Assembly/Provost\ Conference\ Funds\ (CMU)}$

Outstanding Academic Achievement (CPCB Program)

ISMB travel fellowship

2019

2018

2016

AWARDS