

SAMARTH RANGAVITTAL

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EDUCATION Aug 2012 – present	PhD Candidate in Genomics and Bioinformatics, The Pennsylvania State University GPA: 3.66/4.00
TECHNICAL SKILLS	Advanced - Python Intermediate - Bash scripting, Python Pandas and Scikit-learn Basic – R, C++, HTML/JavaScript
PHD THESIS PROJECT Aug 2013 – <i>in progress</i>	<i>Genome assembly and analysis of primate Y-chromosomes</i> The goal of the project is to overcome challenges of low coverage, palindromes and repeats to understand sex chromosome sequence and evolution.
PUBLICATIONS March 2016	A Time- and Cost-Effective Strategy to Sequence Mammalian Y Chromosomes: An Application to the <i>de novo</i> Assembly of Gorilla Y. Marta Tomaszekiewicz*, <u>Samarth Rangavittal*</u> , et. al. (* : co-first authors) Genome Research 2016. 26: 530-540 doi 10.1101/gr.199448.115
CONFERENCE TALKS Sept 2014	The long and short of it: a <i>de novo</i> assembly of the Gorilla Y chromosome Rangavittal S., et al. Genome Informatics 2014, Cambridge, UK
WORK EXPERIENCE Oct - Dec 2015	Research Intern at Universite Lille 1, France Developed Falcon2Fastg: A tool for visualizing long read assemblies Code : https://github.com/md5sam/Falcon2Fastg Supervisor : Rayan Chikhi
POSTER PRESENTATIONS July 2015	Deciphering the sequence and evolution of the Gorilla Y chromosome Rangavittal S., et al. Intelligent Systems for Molecular Biology 2015, Dublin, Ireland
FELLOWSHIPS AND AWARDS	The Huck Dissertation Research Award 2014 Genome Informatics 2014 Bursary Among 10 graduate students funded by Genome Research to attend the Genome Informatics 2014 conference at Cambridge, UK The University Graduate Fellowship at Penn State 2012-13
RELEVANT COURSEWORK	Analyzing High Throughput Sequence Data Statistical Methods in Genomics Algorithms and Datastructures in Bioinformatics
POSITIONS OF RESPONSIBILITY	Vice-President, GenoMIX PSU 2014-15 Organizing visitor's talks, workshops and hosting the annual retreat