

SANG (TONY) YOUNG CHUN

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EDUCATION

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| 2011-2017 | Ph.D., Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI, USA |
| 2009-2011 | M.Sc., Computational Medicine and Bioinformatics, University of Michigan, Ann Arbor, MI, USA |
| 2007 | B.A., Biology, Kalamazoo College, Kalamazoo, MI, USA |

EXPERIENCE

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| 2017 | Post-doctoral Research Fellow, University of Michigan, Ann Arbor, MI, USA |
| 2009-2017 | Graduate Student Research Assistant, University of Michigan, Ann Arbor, MI, USA <ul style="list-style-type: none">▶ Applied supervised and unsupervised machine learning approaches to assess the efficiency of protein synthesis through integrative analysis of multi-scalar next-generation sequence data▶ Developed and implemented a weighted sampling methodology to simulate variable imperfections in sequence data▶ Cultivated expertise in the aggregation, extraction, and integration of large data sets and databases including the 1000 Genomes Project, TCGA, COSMIC, GEO, Ensembl, and NCBI▶ Authored several articles in peer-reviewed journals including Nature, PLoS Genetics, Genes and Development, and BMC Bioinformatics with over 960 citations since publication |
| 2016 | Graduate Student Instructor, University of Michigan, Ann Arbor, MI, USA <ul style="list-style-type: none">▶ Created interactive laboratory modules on version control and statistical computing in R, directed lecture recitations, and prepared all exams and assignments▶ Earned student evaluations of 4.9/5.0 for subject matter expertise and mentorship versus the university-wide median of 4.58 |
| 2002-2009 | Research Technician Associate, University of Michigan, Ann Arbor, MI, USA <ul style="list-style-type: none">▶ Directed experimental efforts that led to the publication of several highly cited articles in Journals including <i>Cancer Research</i> with over 330 total citations to date▶ Supervised 5 trainees in experimental protocols, and hazardous material and radiation safety |

SKILLS

Programming and scripting languages

- ▶ Python, R, MySQL, AWK, Bash, Java, C++

Data integration and visualization

- ▶ ggplot, Plotly, matplotlib, Shiny, NumPy, SciPy, Pandas

Machine learning and feature extraction

- ▶ Signal processing, clustering, regression, Bayesian inference, PCA, SVM, RF, TensorFlow, scikit-learn

Environments and version control

- ▶ Linux, OS X, Windows, Anaconda, GitHub, SVN, RStudio, Jupyter (Notebooks and Lab)

Presentation and editing

- ▶ Microsoft (Excel, Powerpoint, Word), Adobe (Illustrator, Photoshop), GIMP

Languages

- ▶ English (native), Korean (conversational), French (basic)

ACTIVITIES

Leadership

President, Kalamazoo College Pre-Medical Society (2 years)

- ▶ Directed volunteer opportunities with local service organizations, physician shadowing events, and lectures
- Director, Kalamazoo College Ultimate Frisbee
- ▶ Revived a defunct intramural and intercollegiate program, and led team to regional tournaments

Organizations

- ▶ International Society of Computational Biology (c.2012), University of Michigan Graduate Consulting Club

Interests

- ▶ Ultimate Frisbee (collegiate and recreational), Weight Training, Building Custom Computer Systems