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Data Scientist / Bioinformatician

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PhD candidate (Computational Biology) with 3+ years experience in analysing large volumes of biological data. Motivated and independent, committed to identifying and solving problems with proven analytical and organisational skills.

Education

2014 - 2018
Munich, Germany

Ludwig-Maximilians-Universität München
Max Planck Institute of Biochemistry
PhD in Biology (Computational Biology)
(anticipated graduation in August 2018)

2013 - 2014
Edinburgh, UK

University of Edinburgh
MSc in Bioinformatics (**with Distinction**)

2009 - 2011
Hong Kong

Chinese University of Hong Kong
MPhil in Medicine

Experience

2014-10 - Current
Munich, Germany

PhD Candidate (Computational Biology)
Max Planck Institute of Biochemistry
- Analysed high volumes of sequencing data, with R packages and command line tools
- Launched and maintained a web-based analysis platform with interactive visualisations for expression data
  (Back-end: Python; Front-end: Javascript; Database: MySQL)
- Designed analysis workflows for an online cancer database
- Organised a 2-day symposium for life scientists in Munich

2018-01 - 2018-04
Marseille, France

Research Intern
Developmental Biology Institute, Aix-Marseille University
- Analysed expression and methylation data of human liver cancer and a mouse cancer model
- Performed clustering analysis to identify groups of cancer

2011-09 - 2013-08
Hong Kong

Research Assistant
Faculty of Medicine, The Chinese University of Hong Kong
- Gained expertise in molecular biology and imaging techniques through experimental and animal research
- Designed and conducted multiple territory-wide clinical research projects
- Performed statistical analysis on experimental and clinical research data

Courses and Workshop

MOOCs (Coursera)
- Specialization in Deep Learning (5 courses)
- Big Data Analysis with Scala and Spark
- Visual Analytics with Tableau

Workshop (Science Craft)
- Data Analysis with R
- Scientific Writing

Programming Languages

Python
●●●●○
Advanced

SQL
●●●●○
Advanced

Javascript
●●●○○
Intermediate

R
●●●○○
Intermediate

Scala
●●○○○
Beginner

Skills

Exploratory Data Analysis
■■■■□
Advanced

Data Visualisation (d3.js, Tableau)
■■■■□
Advanced

Machine Learning (scikit-learn, tensorflow, keras)
■■■□□
Intermediate

Distributed System (Hadoop, Spark)
■■□□□
Beginner

Languages

English
Fluent

Chinese
Fluent

German
Intermediate (B1/B2)

Publications

MitoXPlorer - A Visualization Approach to Investigate Mitochondrial Functions in Aneuploidy Cells with RNA-seq Data
Yim, A. P.; Koti, P.; Dürrbaum, M. et al. (Manuscript in preparation)

Hypermethylation of gene body CpG islands predicts high dosage of functional oncogenes in liver cancer.
Arechederra, M.; Daian, F.; **Yim, A. P.** et al. (Publication in process)

Integrative analysis and machine learning on cancer genomics data using the Cancer Systems Biology Database (CancerSysDB).
Krempel, R.; Kulkarni, P.; **Yim, A. P.** et al. BMC Bioinformatics. 2018; 19 (1): pp.156

Abnormal Skeletal Growth in Adolescent Idiopathic Scoliosis Is Associated with Abnormal Quantitative Expression of Melatonin Receptor, MT2.
Yim, A. P.; Yeung, H. Y.; Sun, G. et al. Int J Mol Sci. 2013; 14 (3): pp.6345-58

Abnormal skeletal growth patterns in adolescent idiopathic scoliosis-a longitudinal study until skeletal maturity.
Yim, A. P.; Yeung, H. Y.; Hung, V. W. et al. Spine (Phila Pa 1976). 2012; 37 (18): pp.E1148-54

Conferences

2018-01 **Yokohama, Japan**	**16th Asia Pacific Bioinformatics Conference** **Poster Presentation**	
	Defective Electron Transport Chain Complex in Aneuploidy Cells - Exploring Mitochondrial Functions with RNA-seq Data Using the MitoXplorer web-platform	
2017-07 **Prague, Czech**	**16th European Conference on Computational Biology** **Poster Presentation**	
	Role of Mitochondria in the Occurrence of Cancer - A Visualisation Approach	
2016-11 **Munich, Germany**	**9th INTERACT Life Science Symposium** **Poster Presentation**	
	Visualising Expression Data of Mitochondrial Genes.	

Fellowships and Awards

Best Poster Award at 16th Asia Pacific Bioinformatics Conference, Yokohama, Japan (2018)

ERAMUS+ Internship Program for Higher Education Students, Marseille, France (2018)

PhD Program of International Max Planck Research School for Molecular Life Sciences, Munich, Germany (2014 - 2018)

Postgraduate Studentship from The Chinese University of Hong Kong, Hong Kong (2009 - 2011)

Activities

Organising Committee of the 10th INTERACT Life Science Symposium, Munich, Germany (2018)