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Data Scientist / Bioinformatician

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PhD candidate (Bioinformatics) with 3+ years experience in analysing large volumes of biological data. Motivated and independent person 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 (Bioinformatics) (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 (Bioinformatics)
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
- 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 projects
- Performed statistical analysis on experimental and clinical research data (with publications)

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

Conferences

2018-01 **Tokyo, 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)