

## Jordan A. Ramilowski, PhD

*Bioinformatics Associate Professor*

### Education & Postgraduate Employment

I have a **MSc. Eng. degree** in **Organic Chemistry** from *Silesian University of Technology* in Poland and a **PhD** in **Theoretical Chemistry** (2010) from *Utah State University* in the US. During my doctorate studies, I also spent a year (2008) as a Visiting Scholar at *Universidad Autónoma de Madrid* in Spain. After finishing my doctorate, I did an **Optional Practical Training** in **Bioinformatics** at a **Biotechnology** Company in San Francisco. In 2011, I relocated to Japan where I was a **Bioinformatics Postdoctoral Researcher** (2011-2016) and then a **Research Scientist** (2016-2020) at the *RIKEN Yokohama Institute*.

### Current Employment

Since August 2020, I am a **Bioinformatics Associate Professor** at the *Advanced Medical Research Center* of the *Yokohama City University*. I am also a **Visiting Scientist** at the *RIKEN Center of Integrative Medical Sciences* (<https://acgt.riken.jp/>) and a **Member** of the **Worldwide FANTOM Consortium** (<https://fantom.gsc.riken.jp>). These appointments help me to promote collaborations amongst different Research Institutions within and outside Japan and carry out cutting-edge research in molecular biology.

### Research & Teaching

My current research focuses mainly on understanding gene regulation, function and biological roles of the noncoding part of the genome, RNA and genome structure and interactions, cell–cell communication as well as cell conversion and immunity with the mission to prolong and enhance human life and cure cancer and other diseases. I use a variety of informatics tools (Linux, R statistical software, Python, etc.) and computational and statistical methods. I build efficient computational pipelines that can be used by our lab and other researchers to analyze bulk and single cell Next Generation Sequencing (NGS) data including CAGE-seq, RNA-seq, HiC, ChIP-seq, ATAC-seq and structural data.

As a Bioinformatics Educator, I teach Medical and Life Sciences Students the basic of modern Bioinformatics with the emphasis on the understanding, building and using highly efficient computational pipelines to help their own research. I also help the Biology Lab Members to better understand basic statistical and computational concepts related to their experiments.

My peer-reviewed publication list: [Google Scholar](#).

Join us!  <mailto:jordanr@yokohama-cu.ac.jp>

We always welcome Academic and Industry Collaborators with similar research interests and we actively seek Japanese and International Graduate Students and Postdocs interested in joining our 'computational' and 'experimental' (YCU-Tamura/immunol) efforts.

**Hiring 助教:** [https://www.yokohama-cu.ac.jp/recruit/bioinformatics\\_zyokyou\\_20221031.html](https://www.yokohama-cu.ac.jp/recruit/bioinformatics_zyokyou_20221031.html)