



Curriculum Vitae



Name
Jian-geng Chiou

Current Position
Assistant Research Fellow, Institute of Plant and
Microbial Biology, Academia Sinica

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Education & Professional Experiences

Education

INSTITUTION AND LOCATION	DEGREE	DURATION MM/YY-MM/YY	FIELD OF STUDY
Duke University, NC, USA	Ph.D.	08/13 - 05/19	Genetics and Genomics
National Taiwan Univeristy, Taiwan	B.S.	09/07 - 06/11	Life Sciences

Professional Experiences

INSTITUTION AND LOCATION	POSITION TITLE	DURATION MM/YY-MM/YY	FIELD OF STUDY
University of California San Diego	Postdoctoral Researcher	09/19 - 07/23	Bacterial biofilm development
Agricultural and Biotechnological Research Center, Academia Sinica, Taiwan	Research Assistant	07/12 - 07/13	Arabidopsis stress biology and evolution

Research Interests

I am broadly interested in the principles of pattern formation in microbial developmental systems. For animal development, pattern formation critically dictates the heterogeneity in gene expression or protein distribution, and defines functionally specialized regions within an embryo, which define the identities of cells that will later become different organs. In contrast, people rarely think of the relevance of development or pattern formation in stereotypically “unicellular” microbes. However, the principles of pattern formation, just like any other mathematical properties, should be universally applicable. My research career was built on the unique niche, where I establish how pattern formation principles can provide novel research frameworks for critical processes in microbiology as well. My current research directions explore how theories can benefit our understandings of unknown developmental processes in Ascomycete fungi and *Bacillus* biofilms.