

## **Kun D. Huang** —*curriculum vitae*

Via Sommarive 9, 38122 Povo (Trento), Italy

email: kun.huang@unitn.it

Tel: +39 3914365749



### **EDUCATION:**

**University of Trento & Fondazione Edmund Mach** 11/2017~Present

PhD student in Computational Metagenomics & Molecular Evolution

**University of Kiel**, Kiel, Germany 10/2015 ~ 08/2017

Master of Science - Thesis Title: “Comparative genomics of *Lactococcus* phages sampled over three decades”

**Fujian Agriculture and Forestry University**, Fuzhou, China

Bachelor of Plant Pathology in microbial genomics 2011~2015

**Texas A&M University**, College Station, Texas, USA 2014~2015

Visiting student in Bio- environmental Sciences

\*Funded by China Scholarship Council and Fujian Agriculture and Forestry University.

### **RESEARCH EXPERIENCE:**

**PhD Student** supervised by Prof. Nicola Segata and Dr. Omar Rota-Stabelli

University of Trento & Fondazione Edmund Mach, Trento, Italy 11/2017~Present

- Analysing metagenomics data in large-scale
- Developing bioinformatics approaches applied in metagenomics and phylogenomics

- Studying molecular evolution mainly in molecular clock

**Bioinformatician** in Prof. Tal Dagan's group

Institute of General Microbiology, Christian-Albrechts-Universität zu Kiel, Germany  
04/2016~08/2017

- Participation in phage evolution project (Funded by **The Future Ocean** with € 7560 for 18 months) (DOI: 10.1093/molbev/msy027)
- Teaching assistant in tutoring Python programming course
- Teaching assistant in tutoring Computational and Comparative Genomics course

**Lab intern** in Prof. Joshua Yuan's group

Norman E. Borlaug Centre for Plant Genomics & Biotechnology, College  
Station, Texas, USA 05/2014~11/ 2014

**Lab trainee** in the group of Prof. Zonghua Wang

Key Laboratory of Bio-pesticide and Chemistry Biology, Ministry of Education, FuJian  
Agricultural and Forestry University 01/2013~01/2014

## **SCHOLARSHIPS and AWARDS:**

**Distinguished Student Award**, The College of Agriculture and Life Sciences,  
Texas A&M University, USA 2014 Spring Semester

**Excellent Student Scholarship** (\$ 200), Fujian Agriculture and Forestry  
University, Fuzhou, FuJian 2012~2013

**Outstanding Undergraduate Scholarship** (\$ 15000), State Scholarship Fund,  
Beijing 2012~2013

**Excellent Student Scholarship** (\$ 200), Fujian Agriculture and Forestry  
University, Fuzhou, Fujian 2012~2013

**Excellent Student Scholarship** (\$ 200), Fujian Agriculture and Forestry  
University, Fuzhou, Fujian 2011~2012

## **Work-related SKILLS:**

Python, R, bash, Java, SQL

## **Academic publications:**

Adrian Tett, **Kun D. Huang**, Francesco Asnicar, Hannah Fehlner-Peach, Edoardo Pasolli, Nicolai Karcher, Federica Armanini, Paolo Manghi, Kevin Bonham, Moreno Zolfo, Francesca De Filippis, Cara Magnabosco, Richard Bonneau, John Lusingu, John Amuasi, Karl Reinhard, Thomas Rattei, Fredrik Boulund, Lars Engstrand, Albert Zink, Maria Carmen Collado, Dan R. Littman, Daniel Eibach, Danilo Ercolini, Omar Rota-Stabelli, Curtis Huttenhower, Frank Maixner, Nicola Segata; The *Prevotella copri* complex comprises four distinct clades that are underrepresented in Westernised populations. *bioRxiv*, 09 April 2019.

Anne Kupczok, Horst Neve, **Kun D Huang**, Marc P Hoepfner, Knut J Heller, Charles M A P Franz, Tal Dagan; Rates of Mutation and Recombination in *Siphoviridae* Phage Genome Evolution over Three Decades, *Molecular Biology and Evolution*, Volume 35, Issue 5, 1 May 2018, Pages 1147–1159.

## **Conference presentations:**

2018 Poster; Population genomics and co-evolutionary dynamics of *Wolbachia*-host symbiotic interaction in different host species; Society for Molecular Biology and Evolution (SMBE), Japan.