

# Dang Liu

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## EDUCATION

### PhD candidate in Biology (Molecular Anthropology)

2018-present

International Max Planck Research School "The Leipzig School of Human Origins",  
Leipzig University and Max Planck Institute for Evolutionary Anthropology, Leipzig,  
Germany

Thesis: Human population genetic history of Mainland Southeast Asia

Advisor: Prof. Dr. Mark Stoneking

### MSc in Biology (Evolutionary Genomics)

2015-2017

Genome and Systems Biology Degree Program, National Taiwan University and  
Academia Sinica, Taipei, Taiwan

Thesis: Comparative genomics of *Caenorhabditis* species

Advisor: Dr. Isheng Jason Tsai

(Overall GPA: 4.09/4.3; Ranking: 2/5)

### BSc in Biology

2011-2015

Department of Life Sciences, National Cheng Kung University, Tainan, Taiwan

(Overall GPA: 3.91/4; Ranking: 1/49)

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## RESEARCH EXPERIENCE

### Substitutive Military Service

2017-2018

Topic: Core collection of tomato populations through NGS technology

Director: Dr. Ien-Chie Wen

Plant Germplasm Division, Taiwan Agricultural Research Institute, Taichung, Taiwan

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## PUBLICATIONS

- 1 Kutanan, W.\*, **Liu, D.\***, Kampuansai, J., Srikumool, M., Srithawong, S., Shoocongdej, R., Sangkhano, S., Ruangchai, S., Pittayaporn, P., Arias, L., Stoneking, M. (2021). Reconstructing the human genetic history of mainland Southeast Asia: insights from genome-wide data from Thailand and Laos. *Molecular Biology and Evolution*. (\*: contributed equally as first authors).
- 2 **Liu, D.**, Duong, N. T., Ton, N. D., Van Phong, N., Pakendorf, B., Van Hai, N., & Stoneking, M. (2020). Extensive ethnolinguistic diversity in Vietnam reflects multiple sources of genetic diversity. *Molecular Biology and Evolution*.
- 3 Srithawong, S., Muisuk, K., Srikumool, M., Kampuansai, J., Pittayaporn, P., Ruangchai, S., **Liu, D.**, Kutanan, W. (2020). Close genetic relationship between central Thai and Mon people in Thailand revealed by autosomal microsatellites. *International Journal of Legal Medicine*.
- 4 Kanzaki, N.\*, Tsai, I. J.\*, Tanaka, R.\*, Hunt, L. V.\*, **Liu, D.**, Tsuyama, K., Maeda, Y., Namai, S., Kumagai, R., Tracey, A., Holroyd, N., Doyle, R. S., Woodruff, C. G., Murase, K., Kitazume, H., Chai, C., Akagi, A., Panda, O., Ke, H. M., Schroeder, C. F., Wang, J., Berriman, M., Sternberg, P. W., Sugimoto, A., & Kikuchi, T. (2018). Biology and genome of a newly discovered sibling species of *Caenorhabditis elegans*. *Nature Communications*. (\*: contributed equally as first authors).

- 5 Ke, H. M., **Liu, D.**, Ogura, Y., Hayashi, T., Urbanczyk, H., & Tsai, I. J. (2018). Tracing genomic divergence of *Vibrio* bacteria in the Harveyi clade. *Journal of bacteriology*.
- 6 **Liu, D.**, Hunt, M., & Tsai, I. J. (2018). Inferring synteny between genome assemblies: a systematic evaluation. *BMC Bioinformatics*.
- 7 Chung, C. L., Lee, T. J., Akiba, M., Lee, H. H., Kuo, T. H., **Liu, D.**, Ke, H. M., Yokoi, T., Roa, B. M., Lu, J. M., Chang, Y. Y., Ann, P. J., Tsai, J. N., Chen, C. Y., Tzean, S. S., Ota, Y., Hattori, T., Sahashi, N., Liou, R. F., Kikuchi, T., & Tsai, I. J. (2017). Comparative and population genomics landscape of *Phellinus noxius*: a hypervariable fungus causing root rot in trees. *Molecular Ecology*.

## PRESENTATIONS AND CONFERENCES

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- 1 **Liu, D.**, Ensing, J., Schiefenhövel, W., Kayser, M., Stoneking, M. (2021). Assessing human genome-wide variation in the Massim region of Papua New Guinea and implications for the *Kula* trading tradition. Poster presentation, *CSHL Biology of Genomes 2021 virtual meeting*.
- 2 Kutanan, W.\*, **Liu, D.\***, Kampuansai, J., Srikumool, M., Srithawong, S., Shoocongdej, R., Sangkhano, S., Ruangchai, S., Pittayaporn, P., Arias, L., Stoneking, M. (2021). Reconstructing the human genetic history of mainland Southeast Asia: insights from genome-wide data from Thailand and Laos. Poster presentation, *EMBO Virtual Course on Population Genomics*. (\*: contributed equally as first authors).
- 3 **Liu, D.**, Duong, N. T., Ton, N. D., Van Phong, N., Pakendorf, B., Van Hai, N., & Stoneking, M. (2019). Extensive ethnolinguistic diversity in Vietnam reflects multiple sources of genetic diversity. Poster presentation, *Human Evolution 2019 at Welcome Genome Campus, UK*.
- 4 **Liu, D.**, Kanzaki, N., Tanaka, R., Woodruff, G., Maeda, Y., Sternberg, P. W., Tsai, I. J., Sugimoto, A., & Kikuchi, T. (2016). The genome sequence of *Caenorhabditis* sp. 34: a true sister species of *C. elegans* advancing model species biology. Oral presentation, *International Symposium on Evolutionary Genomics and Bioinformatics*.

## TEACHING EXPERIENCE

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Seminar mentor at the Molecular Anthropology course, University Leipzig	2021
Seminar mentor at the Molecular Anthropology course, University Leipzig	2020

## HONORS

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Government Scholarship to Study Abroad from Taiwan Ministry of Education	2020
Semi-Finalist Award for Best Student Oral Presentation on International Symposium on Evolutionary Genomics and Bioinformatics	2016
The Award of Outstanding Student for the Academic Achievement	2011-2012 2012-2013

## SKILLS

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- Proficiency in programming language such as Python and R
- Familiar with Linux environment and Bash scripting
- Familiar with Adobe Illustrator
- Experience in NGS data analysis such as assembly, annotation, comparative genomics and population genomics
- Molecular and genetics techniques such as DNA/RNA extraction, cloning and cell culture

## LANGUAGE ABILITIES

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- Mandarin (native speaker)
- English (fluent)
- German (basic)

## EXTRACURRICULAR ACTIVITIES

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Internal PhD representative at Dept. of Evolutionary Genetic, MPI-EVA	2019-2020
Player on National Taiwan University Football Team	2015-2017
• Assistant coach in 2015/2016 season of University Football Association	
Player on National Cheng Kung University Football Team	2011-2015
• Captain in 2013/2014 season of University Football Association	
Poetry Exhibition in National Cheng Kung University	2013 2015

## REFERENCES

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PhD advisor

**Mark Stoneking**, Ph.D.

Group Leader of Department of Evolutionary Genetics, Max Planck Institute for Evolutionary Anthropology, and Honorary Professor of Biological Anthropology, University of Leipzig.

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MSc advisor

**Isheng Jason Tsai**, Ph.D.

Associate Research Fellow of Biodiversity Research Center, Academia Sinica.

Biodiversity Research Center, Academia Sinica, 128 Academia Road Sec. 2, Nankang Taipei 115 Taiwan, Room B303.

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