# Yuki Haba

Columbia University | Zuckerman Mind Brain Behavior Institute Email: <a href="mailto:yh2778@columbia.edu">yh2778@columbia.edu</a> X: @YukiHaba\_ Bluesky: @yukihaba Personal website: <a href="mailto:yukihaba.github.jo">yukihaba.github.jo</a>

# **Education**

Ph.D.	e	Advisor: Carolyn (Lindy) McBride olutionary history of <i>Culex pipiens</i> complex mosquitor ship (Princeton) and Masason Fellowship (Masason F	
M.A.	Columbia University MA Thesis: The genomics o	Advisor: Dustin Rubenstein of behavioral adaptation to photoperiodism in an Asian llace Prize for the best MA thesis	2017
B.A.	The University of Tokyo		2015

# **Employment**

Leon Levy Scholar	Columbia University   Zuckerman Inst. Genomics and neuroethology of social touc		2024–
Postdoc	Harvard University	Advisor: Hopi Hoekstra	2023–24
Research Asst.	Columbia University Evolutionary genomics of PRDM9-directed	Advisor: Molly Przeworski recombination across vertebrates	2016–17
Visiting Scholar	<b>SOKENDAI</b> Development of a new phylogenetic compa	Advisor: Nobuyuki Kutsukake urative method to understand social evolution	2015

# **Publications** (Google Scholar) \*corresponding author(s) +equal contribution

Published or in press

- 1. <u>Haba Y\*</u>, PipPop Consortium, Korlević P, McAlister E, Lawniczak MKN, Schumer M, Rose NH, McBride CS\*. (2025) Ancient origin of an urban belowground mosquito. *bioRxiv* <a href="https://www.biorxiv.org/content/10.1101/2025.01.26.634793">https://www.biorxiv.org/content/10.1101/2025.01.26.634793</a> Media coverage: *Nature*, *The Independent*, *New Scientist*, *Phys.org*
- 2. Hesson J, <u>Haba Y</u>, McBride CS, ..., Makunin A. (2025) A chromosomal reference genome sequence for the northern house mosquito, *Culex pipiens*, Linnaeus, 1758. *Wellcome Open Research* 10:107 (Open Access)
- 3. Yang Q, Wang B, Lemey P, ... <u>Haba Y</u>, ..., Grenfell B. (2024) Synchrony of Bird Migration with Global Dispersal of Avian Influenza Reveals Exposed Bird Orders. *Nature Communications* 15, 1126 (Open Access; *bioRxiv*)
- 4. Ryazansky SS, Chen C, ..., <u>Haba Y</u>, ..., Sharakhova MV. (2024) The chromosome-scale genome assembly for the West Nile vector *Culex quinquefasciatus* uncovers patterns of genome evolution in mosquitoes. *BMC Biology* 22, 16 (Open Access)
- 5. Arich S, <u>Haba Y</u>, Assaid N, Fritz ML, McBride CS, Weill M, Taki H, Sarih M, Labbé P. (2022) No association between habitat, autogeny, and genetics in Moroccan *Culex pipiens* populations. *Parasites & Vectors* 15, 405. (Open Access)
- 6. <u>Haba Y</u>\*, McBride CS\*. (2022) Origin and status of *Culex pipiens* mosquito ecotypes. *Current Biology* 32:237–246. (Open Access)
- 7. <u>Haba Y</u>\*, Kutsukake N\*. (2019) A multivariate phylogenetic comparative method incorporating a flexible function between discrete and continuous traits. *Evolutionary Ecology* 33:751. (*bioRxiv*)
- 8. <u>Haba Y</u>\*\*, Herbert R\*, Yang L\*. (2019) An undescribed relationship between the knobthorn tree (*Senegalia nigrescens*), ants, and a lac scale insect in South Africa. *African Journal of Ecology* 2019:00:1-4.
- 9. <u>Haba Y</u> & Kutsukake N. (2018) Social behavior in vertebrates. In Encyclopedia of Zoology, 1st Ed. Tokyo, Japan. Maruzen. (Japanese)
- 10. Baker Z, Schumer M<sup>+</sup>, <u>Haba Y</u>, Holland C, Rosenthal GG, Przeworski M. (2017) Repeated losses of PRDM9-directed recombination despite the conservation of PRDM9 across vertebrates. *eLife* 6:e24133. (Open Access)

#### Forthcoming

11. Haba Y\*, PipPop Consortium, Schumer M, Rose NH, McBride CS\*. Evolutionary history of *Culex pipiens* complex mosquitoes.

Awards, Fellowships, and Grants

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Awards & Fellowships			
Leon Levy Scholarship in Neuroscience	The New York Academy	of Sciences	(2025 - 2028)
W.D. Hamilton Award, Runner-up		of Evolution top 3 out of 15 finalis	
PIIRS Dissertation Fellowship		ternational and Regional Studies	(2022 - 2023)
Best Talk Prize in Evolution		e-Penn-Rutgers Inter-School Sympos	
Walbridge Fund Graduate Award	High Meadows Environn		(2021)
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Rosemary Grant Advanced Award	The Society for the Study		(2020)
Lewis and Clark Field Scholar	American Philosophical Society		(2019)
Honjo International Fellowship	Honjo International Scholarship Foundation		(2018 - 2023)
Centennial Fellowship	Princeton University	for the top incoming students	(2017 - 2022)
Masayoshi Son Fellowship	Masayoshi Son Foundati	on	(2017 - 2022)
Alfred Russel Wallace Prize	Columbia University	for the best MA Thesis	(2017)
James Mills Peirce Fellowship	Harvard University	for the top incoming students. dclnd	d. (2017)
Dean's Fellowship	Columbia University	for the top incoming students. dclnd	d. (2017)
Recruitment Fellowship	U Texas at Austin	for the top incoming students. dclnd	
Global Leadership Award	Friends of University of		(2015)
Grants	Triends of Oliversity of	rong o me.	(2013)
PacVec Training Grant	Pacific Southwest Center	of Evcallance	(2018 - 2019)
Masayoshi Son Research Grant	Masayoshi Son Foundati	UII	(2017 - 2022)
PhD Seed Grant	Princeton University		(2018)
Sigma Xi Grant-in-Aid of Research	Sigma Xi		(2017)
Earth Institute Student Travel Grant	The Earth Institute		(2016)
E3B MA Grant	Columbia University		(2016)
E3B Travel Grant	Columbia University		(2016)
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Presentations			
Invited Seminars			
NYU Global Urban Summit / Dept Biol.	New York University	Host: Dr. Katie Schneider Paolanto	nio (2025)
Dept. Evolution, Ecology, and Behavior	University of Illinois	Host: Dr. Becky Fuller	(2025)
Director-General Invited Seminar Series	NIBB, Okazaki	Host: Dr. Naoto Ueno	(2024)
Dept. Biology	Columbia University	Host: Dr. Molly Przeworski	(2024)
Zuckerman Mind Brain Behavior Inst.	Columbia University	Host: Dr. Ishmail Abdus-Saboor	(2023)
Dept. Organismic and Evolutionary Biol.		Host: Dr. Hopi Hoekstra	(2022)
		Host: Dr. Li Zhao	
Dept. Biology	Rockefeller University		(2022)
Dept. Biology	Rockefeller University	Host: Dr. Daniel Kronauer	(2022)
Dept. Biology	Stanford University	Host: Dr. Molly Schumer	(2022)
Dept. Entomology/Ecology & Evolution	Rutgers University	Host: Dr. Dina Fonseca	(2022)
Dept. Ecol. Evol. Organismal. Biol.	Kennesaw State Uni.	Host: Dr. Sarah Guindre-Parker	(2021)
Dept. Biology	Stanford University	Host: Dr. Erin Mordecai	(2021)
Dept. Applied Entomological Science	University of Tokyo	Host: Dr. Takashi Matsuo	(2017)
Atmosphere & Ocean Research Institute	University of Tokyo	Host: Dr. Susumu Yoshizawa	(2017)
Dept. Evolutionary Studies & Biosystems	s SOKENDAI	Host: Dr. Nobuvuki Kutsukake	(2017)
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# **Teaching and Mentorship**

## Mentoring philosophy

Mentoring is one of the most important contributions a scientist could do to the society, and one of the greatest joys I see in my job. I leverage the beauty and complexity of life as an inspiration to help mentees become active and educated citizens who can think critically and challenge status quo when facts contradict it. I welcome and encourage students from all backgrounds regardless of nationality, gender, race, religion, or creed, to develop their own interest and motivation.

## **Undergraduate Honors Thesis Mentees**

Sean Crites (2021-22) Princeton EEB "Investigating genetic underpinnings of host odor preference in *Culex pipiens*" Alexandra Colón (2019-20) Princeton EEB "A genetic analysis of host preference variation in *Culex pipiens* mosquitoes."

Jaskiran Kaur (2019-20) Princeton EEB "Olfaction based host preferences in *Culex pipiens* mosquitoes"

Alexandra Hohmann (2018-19) Princeton Neuro "Comparing the Antennal Lobes of Two Forms of Culex pipiens Mosquito"

# Princeton EEB Scholars Program Mentees

Aryan Jakhar (2021-22) IISER, India. Currently pursuing PhD at Brown University

Lucia X. A. Caballero (2020-21) National University of Trujillo, Peru. Currently pursuing PhD at Lund University Joevy Sum (2020-21) University of Nebraska-Lincoln. Currently pursuing Master's at Mass. General Brigham

#### **Undergraduate Summer Internship Mentees**

Vitor Dos Anjos (2020) Swarthmore College. Currently pursuing PhD at Princeton University

#### **XPLANE** Mentor Program Mentees

Fang Chen (2021-23) University of Tokyo/U Michigan. Currently pursuing PhD at Virginia Tech Naoto Yamaguchi (2020-21) University of Tokyo. Currently pursuing PhD at U Washington St. Louis

Yu Yu Phua (2020-21) University of Tokyo. Currently pursuing PhD at Caltech

## **International Scholar Mentees**

Dr. Enas Ghallab (2022-23) Ain Shams University, Egypt. Trained for large scale genomic and bioinformatic analyses Adugna Belew (2022) Addis Ababa University, Ethiopia. Trained for molecular genetics methods to ID vectors

### Teaching Assistantship / Guest lecture

- 1. **Evolution** (2021-2024) led by Profs. Molly Schumer and Dmitri Petrov, Stanford University. Guest lecture "*Mechanistic Basis of Behavioral Evolution*" at the intro-level Evolutionary Biology undergraduate course.
- 2. **Genomics in the Wild** (2020) led by Profs. Julien Ayroles and Sarah Kocher, Princeton University.
  - A 3-week advanced (for juniors and seniors) field class in Mpala Research Center, Kenya, on the use of genomic tools to answer ecological and evolutionary questions. Helped coordinate the program including local field sampling, molecular experiments, and gave a lecture on genomic data analysis.
- 3. **Neurogenetics and Evolution of Behavior** (2018) led by Prof. Carolyn McBride, Princeton University. An advanced (for juniors and seniors), discussion-based class on the recent publications of the genetics and neurobiology of behavioral evolution. Designed and led weekly review/discussion sessions.
- 4. **Environmental Biology I** (2016) led by Prof. Dustin Rubenstein, Columbia University.
  - An introductory course of biology for students from any backgrounds with emphasis on ecology and evolutionary biology. Led weekly review/discussion sessions, wrote and graded exams.
- 5. **The Behavioral Biology of the Living Primates** (2016) led by Prof. Marina Cords, Columbia University. An introductory course of behavioral ecology, with emphasis on the behavioral ecology of primates. Designed and graded exams.

# **Outreach and Capacity Building**

# Mobile Mosquito Lab @ Martin Luther King Junior Middle School, Trenton, NJ (2023)

As the McBride lab, we designed a fun and informative program aimed at teaching local middle-school students basic biology of mosquitoes. Working with both English- and Spanish-speaking students, I took charge of a microscope module in which we compare Aedes and Culex mosquitoes and discuss their morphological and ecological differences.

# EEB Scholars Program, Princeton University: Mentor (2020-2022)

Mentored students from underrepresented backgrounds and/or with limited resources to apply for Ecology and Evolutionary Biology graduate programs in the United States and Europe. Mentoring includes: 1-on-1 meetings to help clarify their research interests, essay writing and revisions, mock-interviews throughout the application season (from early fall to late winter the next year).

# **EEB Open House: Graduate Student Panelist** (2021)

Participated as a graduate student panelist in the session with aims to demystify the application processes and life as a PhD student for the potential applicants to the Ecology and Evolutionary Biology PhD program at Princeton University.

### **Evolution 2021 Bilingual Mentoring Program: Mentor** (2021)

Mentored a non-native mentee to help with translation, grammar, and spelling on presentation, provided presentation advice for recording, and advised the mentee on how to make the most of their participation in social events.

## **XPLANE**: Founder and Board Member (2019-present)

Co-founded a Non-Profit Organization XPLANE funded by US Department of State and US Embassy in Tokyo. We designed and implemented a community-based knowledge platform for Japanese students who would like to apply for overseas graduate schools with limited resources. Currently a community of 2,500+ users. Website here (Japanese).

# Reference \*main advisors

Postdoc		
Dr. Ishmail Abdus-Saboor*	Columbia University	ia2458@columbia.edu
Ph.D.		
Dr. Carolyn (Lindy) McBride*	Princeton University	csm7@princeton.edu
Dr. Molly Schumer	Stanford University	schumer@stanford.edu
Dr. Salah Kocher	Princeton University	skocher@princeton.edu
Dr. Noah Rose	UC San Diego	nhrose@ucsd.edu
<b>M.A.</b>		
Dr. Dustin Rubenstein*	Columbia University	dr2497@columbia.edu
Dr. Molly Przeworski	Columbia University	mp3284@columbia.edu
Dr. Sheng-Feng Shen	Academia Sinica, Taiwan	shensf@sinica.edu.tw
<b>B.A.</b>		
Dr. Nobuyuki Kutsukake*	SOKENDAI	kutsu@soken.ac.jp
Dr. Tadashi Miyashita	The University of Tokyo	tmiya@es.a.u-tokyo.ac.jp
Dr. Masakazu Shimada	The University of Tokyo	mshimada0707@gmail.com