



OVERSEAS CHINESE ENTOMOLOGISTS ASSOCIATION HIGHLIGHTS

Hongmei Li-Byarlay
Vice President of OCEA (2023-24)

Department of Agricultural and Life Sciences

Central State University

November 12, 2024

Agenda

TUESDAY, November 12, 2024

06:30 PM Welcome & meeting preparation

07:00 PM Introduction (Li)

07:05 PM Highlights (Li-Byarlay)

07:30 PM Treasurer Report (Zhu)

07:35 PM Self-introduction (Attendees)

08:00 PM Introducing New Officers (President, Hongmei Li-Byarlay, Vice President- Zinan Wang, Secretary- Fei Yang)

08:15 PM Donation and Membership Fee (Zinan Wang)

08:40 PM Student Award Ceremony (Li & Li-Byarlay)

08:50 PM Career Development Speaker: Xiangbing Yang, APHIS-USDA at Miami

09:00 PM Nomination for new officers in 2024-2025, etc.

09:30 PM Meeting Adjourned

Outline

1 About OCEA and Acknowledgements

2 News and Achievement Highlights

3 Job Announcements



OCEA 2016 Group Photo at Orlando, FL



OCEA 2017 Group Photo at Denver, CO



OCEA 2022 Group Photo at Vancouver, Canada

Acknowledgements

★ OCEA founders and early contributors: Dangsheng Liang, Zhiyong Huang, Barry Bai, Tongxian Liu, Haobo Jiang, Changlu Wang, etc.

★ Previous and current officers including presidents, vice presidents, treasurers, secretaries 1998-2022 (www.theoceca.org)

--Current officers:

President : Ting Li (Alabama State University)

Vice President : Hongmei Li-Byarlay (Central State University)

Treasurer: Fang (Rose) Zhu (Penn State University)

Secretary: Zinan Wang (University of Kentucky)

Website Manager: [Qian \(Karen\) Sun](#) (Louisiana State University) (2021-2023)

★ All OCEA member support

About OCEA

- OCEA is a non-profit organization dedicated to promoting scholarly exchange and collaboration among Chinese entomologists around the world
- OCEA was established in 1998 and we meet annually during the annual meeting of the Entomological Society of America
- Our membership is about 200 people. We have a WeChat group and a mailing list.

OCEA new website: www.theoce.org

Bylaws of Overseas Chinese Entomologists Association (OCEA)

- ▶ Approved by the OCEA Executive Committee on March 22, 2013
- ▶ II. Election Rules:
 - ▶ 1. Consideration for President-elect (i.e., new Treasurer) may be initiated either by self nomination or by being nominated by at least one (1) member, seconded by another, and accepted by the nominee.
 - ▶ 2. The election for President-elect shall be held generally at the annual meeting in conjunction with the Annual Meeting of Entomological Society of America, unless specifically called for at a different time and approved by the Executive Board.
 - ▶ 3. The new President-elect joins the Executive Board as the Treasurer, becomes the Vice President in the second year, and serves as the President in the third year.
 - ▶ 4. The newly formed Executive Board shall resume their duties on the first of January the following year after the election.

News and Achievement Highlights

- Grouped in different branches
 - Eastern
 - North Central
 - Pacific
 - Southeastern
 - Southwestern

Professor Changlu Wang

Former OCEA President 2018-2019



**Full professor/Extension
Specialist
Rutgers University
(New Jersey)**

- **Lab website:** <https://entomology.rutgers.edu/personnel/changluwang/>
- **Publications (2024)**

Efficacy of selected insecticide sprays against Indian meal moth (Lepidoptera: Pyralidae) wandering larvae on various surfaces X Pan, C Wang Journal of Stored Products Research 109, 102438	2024
Foraging time and neighborhood competition in Aphaenogaster ants: a field experiment R Dai, A Aslam, C Wang Insectes Sociaux 71 (3), 295-308	2024
Long-term monitoring of Bactrocera and Zeugodacus spp. (Diptera: Tephritidae) in China and evaluation of different control methods for Bactrocera dorsalis (Hendel) XZ Li, GL Wang, CL Wang, WJ Li, T Lu, YG Ge, CK Xu, X Zhong, JG Wang, ... Crop Protection 182, 106708	1 2024

- **Awards**

Recognition Award from Medical, Urban, and Veterinary Section (MUVE) of ESA

- **Grants**

\$1 million grant from U.S. Department of Housing and Urban Development to study “Norway rat behavior, health risks, and control in New York City”.

Assistant Professor Fang Zhu



Penn State University

OCEA President 2022-2023

- **Lab website:** <https://sites.psu.edu/itox2018/>
- **Publications (2023-2024)**
Published 8 peer-reviewed articles in *Science of the Total Environment*, *Chemosphere*, *Pest Management Science*, *Insects*, etc.
- **Grants and patents/Awards**
 - Research supported by Federal competitive grants such as USDA (2022-2026), NSF (2022-2027), etc.
 - College award in Early Achievement in Research, Penn State (2024)
 - Top 20 cited paper in *Insects* (2023)
- **Graduated students and student achievements in recent two years**
 - One PhD student and one undergraduate student graduated in 2024
 - **Elsie Umbel** (high school student) won 2nd place at the EnvironMentors national science fair, Washington D.C. in 2024
 - **Sonu Koirala BK** (PhD student) won College Graduate Student Competitive Grant, 2023-2024 (\$3,000)

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Iowa State University

Hua Bai

- **Lab website:** <https://faculty.sites.iastate.edu/hbai/>
- **Social media:** <https://twitter.com/TheBaiLab>
- **Publications (2023-2024):** 8 publications in *PNAS Nexus*, *Life Sci Alliance*, *J Cardiovasc Aging*, etc.
- **Grants:** Currently, 1 NIH R01, 1 NSF CAREER, 1 Private foundation grant
- **Career development / tenure /promotion/awards:** ISU Dean's Emerging Faculty Leaders Award
- **Graduated students and student achievements in recent two years:** Total graduate students trained: 13 (7 graduated). One former graduate student landed a faculty position (non-tenure track).
- **Job openings:** Currently, we have openings for postdocs and graduate students.

Hongmei Li-Byarlay



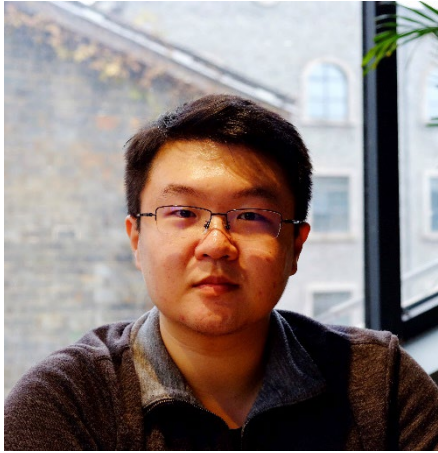
**Associate Professor
Central State University
(Ohio)**



- **Lab website:** <https://sites.google.com/view/libyarlaybee>
<https://www.centralstate.edu/academics/science/research/research-investigators-and-staff>
- **Publications (2024-2025)**
Published **5** peer-reviewed articles in Pesticide Biochem and Physiol, Environmental Research, Comparative Biochemistry and Physiology, 3 book chapters for BeeBook
- **Grants and patents/awards**
 - USDA NIFA Capacity Building Grant,
 - USDA NEXTGEN Grant
 - 2024 President of International Branch, ESA
 - 2024 ESA Distinguished Achievement Award in the Promotion of Diversity and Inclusion in the Field of Entomology
- **Student achievements in recent two years:**
Total undergraduate students trained: 9, graduate students: 2
- **Job openings:** Currently, we have openings for postdocs, work on pathogen stress and CRISPR technologies in honeybees



Zinan Wang

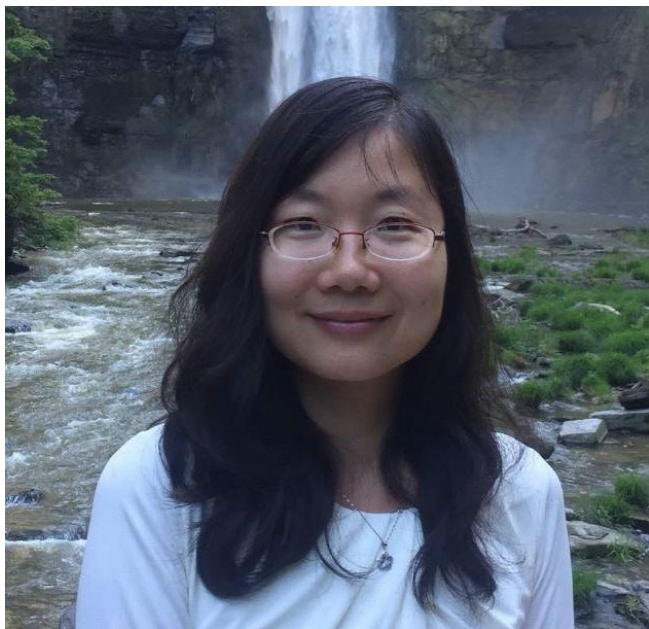


University of Kentucky



- **Lab website:** www.wangzinan.com
- **Social media:** Twitter @zinan_wang
- **Publications (2023-2024)**
 - Wang et al. 2023. Evolution of a fatty acyl–CoA elongase underlies desert adaptation in *Drosophila*. **Science Advances**, 9(35), eadg0328.
- **Grants:** N/A
- **Career development / tenure /promotion/awards**
 - Recently started a tenure-tracked assistant professor position in the Department of Entomology at the University of Kentucky
- **Graduated students and student achievements in recent two years:** N/A
- **Job openings:** Looking for PhD students interested in molecular entomology

Shaohui Wu



- **Lab website:** <https://entomology.osu.edu/our-people/shaohui-wu>
- **Social media:** X (Twitter): @OSU_Turf_Health
- **Publications (2023-2024):** 1 patent, 7 peer-reviewed papers
- **Grants:** \$748,195 (USDA-NIFA AFRI) as PI
- **Career development / tenure /promotion/awards**
Assistant Professor, The Ohio State University (started 2023)
Virginia Tech Dept. of Entomology, 2024 Outstanding Recent Graduate Alumni Award
- **Graduated students and student achievements in recent two years:** Two M.S. students
- **Job openings**
Seeking for a Ph.D. student with study background in Entomology/Nematology/Plant Pathology to work on turfgrass



THE OHIO STATE UNIVERSITY

COLLEGE OF FOOD, AGRICULTURAL,
AND ENVIRONMENTAL SCIENCES

Professor Xuguo Zhou



**University of Illinois at
Urbana**

C.W. Kearns, C.L. Metcalf and W. P
Flint Endowed Chair in Insect
Toxicology,
Department of Entomology,
School of Integrative Biology

Former OCEA President 2020-2021

- **Lab website:**

<https://sib.illinois.edu/directory/profile/xgzhou>

Publications (2023-24)

Published 23 peer-reviewed journal articles.

Recent Publications

Chen, G., Li, Q., Zhang, C., Zhao, W., Jurat-Fuentes, J. L., Zhou, X., Chen, F., Yang, X., & Han, L. (2024). Synergism of Cry1Ca toxicity by gut resident *Enterococcus* spp. in the rice stem borer, *Chilo suppressalis*. *International Journal of Biological Macromolecules*, 257, Article 128654. <https://doi.org/10.1016/j.ijbiomac.2023.128654>

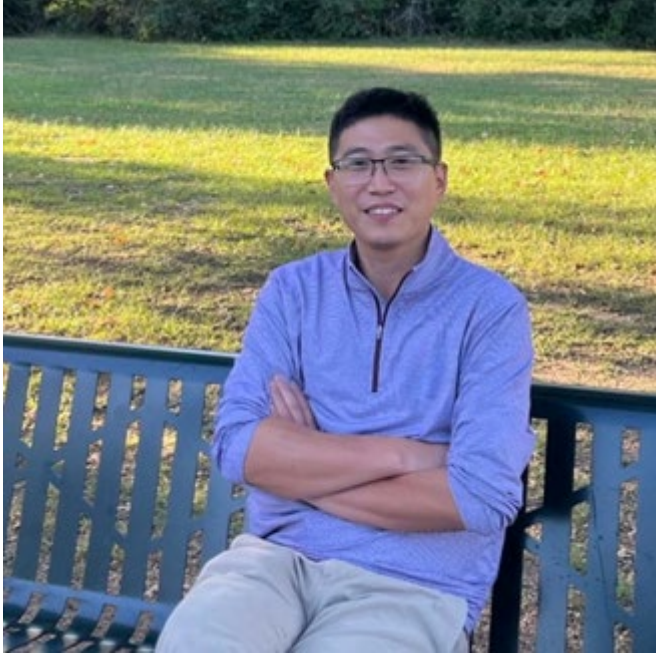
Fu, B., Liang, J., Hu, J., Du, T., Tan, Q., He, C., Wei, X., Gong, P., Yang, J., Liu, S., Huang, M., Gui, L., Liu, K., Zhou, X., Nauen, R., Bass, C., Yang, X., & Zhang, Y. (2024). GPCR-MAPK signaling pathways underpin fitness trade-offs in whitefly. *Proceedings of the National Academy of Sciences of the United States of America*, 121(28), Article e2402407121. <https://doi.org/10.1073/pnas.2402407121>

Gong, C., Guo, Z., Hu, Y., Yang, Z., Xia, J., Yang, X., Xie, W., Wang, S., Wu, Q., Ye, W., Zhou, X., Turlings, T. C. J., & Zhang, Y. (2024). A Horizontally Transferred Plant Fatty Acid Desaturase Gene Steers Whitefly Reproduction. *Advanced Science*, 11(10), Article 2306653. <https://doi.org/10.1002/advs.202306653>

Guo, Z., Zhu, L., Cheng, Z., Dong, L., Guo, L., Bai, Y., Wu, Q., Wang, S., Yang, X., Xie, W., Crickmore, N., Zhou, X., Lafont, R., & Zhang, Y. (2024). A midgut transcriptional regulatory loop favors an insect host to withstand a bacterial pathogen. *Innovation*, 5(5), Article 100675. <https://doi.org/10.1016/j.xinn.2024.100675>

Guo, Z., Bai, Y., Zhang, X., Guo, L., Zhu, L., Sun, D., Sun, K., Xu, X., Yang, X., Xie, W., Wang, S., Wu, Q., Crickmore, N., Zhou, X., & Zhang, Y. (2024). RNA m⁶A Methylation Suppresses Insect Juvenile Hormone Degradation to Minimize Fitness Costs in Response to A Pathogenic Attack. *Advanced Science*, 11(6), Article 2307650. <https://doi.org/10.1002/advs.202307650>

Fei Yang



UNIVERSITY OF MINNESOTA

- **Lab website:** <https://entomology.umn.edu/people/fei-yang>
- **Publications (2023-2024)**
Published 14 peer-reviewed articles in PNAS, Pest Manag. Sci., etc.,
- **Grants (2023-2024)**
\$1,199,634 (to my program) as PI
- **Career development / tenure /promotion/awards**
Assistant Professor, University of Minnesota (started May 2023)
- **Graduated students and student achievements in recent two years:** Two Master and two Ph.D. students.
- **Job openings**
Currently, we have openings for postdocs.

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Professor Xianchun Li



The University of
Arizona

- **Lab website:** <https://cals.arizona.edu/ento/content/xianchun-li>

- **Publications (2023-2024)**

Published 12 peer-reviewed articles in *PNAS*, *J. Pest Sci.*, *J. Agric. Food Chem.*, *Pestic Biochem Physiol.*, *Pest Manag. Sci.*, *HA Insect Mol Biol Toxins Insects*, etc.,

- **Grants and patents/awards**

Research consistently supported by USDA, Cotton Incorporate, Syngenta, Dupont, etc.

- **Graduated students and student achievements in recent two years**

Dr. Xingcheng Xie, Postdoc., Zhengzhou University.

Dr. Shujuan (Lucy) Li



100% Extension

**Department of
Entomology,
Arizona Pest
Management Center,
Cooperative Extension,
University of Arizona**

- **Website**
<https://extension.arizona.edu/person/shujuan-lucy-li>
- **Publications (2023-2024)**
Completed 15 conference papers and presentations in 2023 and 13 in 2024.
- **Grants**
Secured 8 grants as PI and Co-PI for \$1.04M. Involved in additional 2 competitive grants of >\$1.84M as a Senior Key Personnel.
- **Graduated students and student achievements in recent two years**
Mentored 5 student interns on pest management, food safety and public health.

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Name of the PI: Haobo Jiang

- **Lab website:** [Haobo Jiang Profile | Oklahoma State University](#)
- **Social media:** No
- **Publications: (2023-2024)**
 - ❑ Zhou, L., Wang, R., Lin, Z., Shi, S., Chen, C., Jiang, H., Zou, Z., Lu, Z., 2023. Two venom serpins from the parasitoid wasp *Microplitis mediator* inhibit the host prophenoloxidase activation and antimicrobial peptide synthesis. *Insect Biochem. Mol. Biol.*, 152, 103895.
 - ❑ Jin, Q., Wang, Y., Yin, H., Jiang, H., 2023. Two clip-domain serine protease homologs, cSPH35 and cSPH242, act as a cofactor for prophenoloxidase-1 activation in *Drosophila melanogaster*. *Front. Immunol.* 14, 1244792
 - ❑ Shan, T., Wang, Y., Bhattarai, K., Jiang, H., 2023. An evolutionarily conserved serine protease network mediates melanization and Toll activation in *Drosophila*. *Sci. Adv.*, 9, eadk2756.



Oklahoma State University

- ❑ Jin, Q., Wang, Y., Hu, Y., He, Y., Jiang, H., 2024. Serine protease homolog pairs CLIPA4-A6, A4-A7 Δ , and A4-A12 act as cofactors for proteolytic activation of prophenoloxidase-2 and -7 in *Anopheles gambiae*. *Insect Biochem. Mol. Biol.*, 164, 104048.
- ❑ Miao, Z., Xiong, C., Wang, Y., Shan, T., Jiang, H., 2024. Identification of immunity-related genes distinctly regulated by *Manduca sexta* Spätzle-1/2 and *Escherichia coli* peptidoglycan. *Insect Biochem. Mol. Biol.*, 168, 104108.
- ❑ Wang, Y., Jiang, H., 2024. Hemolymph protease-17b activates proHP6 to stimulate melanization and Toll signaling in *Manduca sexta*. *Insect Biochem. Mol. Biol.*, 174, 104193.
- **Grants:** No new grants, ongoing NIH R01 (1) and R21 (1)
- **Career development/tenure/promotion/awards:** No
- **Graduated students and student achievements in recent two years**
Qiao Jin (Ph.D.), Tisheng Shan (Ph.D.)
- **Job openings** (no)

Assistant Professor Ting Li

OCEA President 2023-2024



Alabama State University

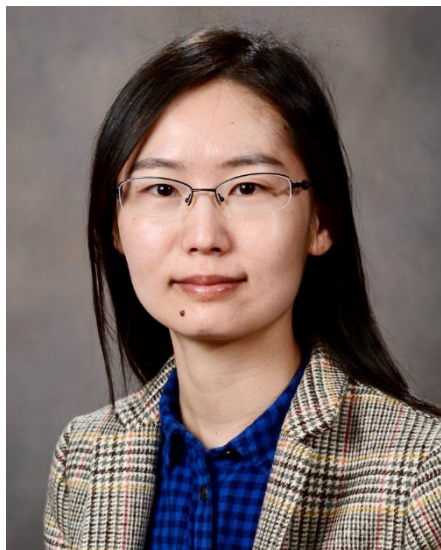
• Publications

- Unveiling the Role of Two Rhodopsin-like GPCR Genes in Insecticide-Resistant House Flies, *Musca domestica* 2024
J Xin, D Brown, Y Wang, X Wang, M Li, T Li, N Liu
International Journal of Molecular Sciences 25 (19), 10618
- Influence of Fungicide Application on Rhizosphere Microbiota Structure and Microbial Secreted Enzymes in Diverse Cannabinoid-Rich Hemp Cultivars 2024
J Xu, T Knight, D Boone, M Saleem, SJ Finley, N Gauthier, JA Ayariga, ...
International Journal of Molecular Sciences 25 (11), 5892
- Molecular and functional characterization of heat-shock protein 70 in *Aphis gossypii* under thermal and xenobiotic stresses 2 2024
P Liang, M Guo, D Wang, T Li, R Li, D Li, S Cheng, C Zhen, L Zhang
Pesticide Biochemistry and Physiology 199, 105774

• Grants and patents/awards

Research projects are supported by Alabama State University, NIH, NSF, and American Cancer Society

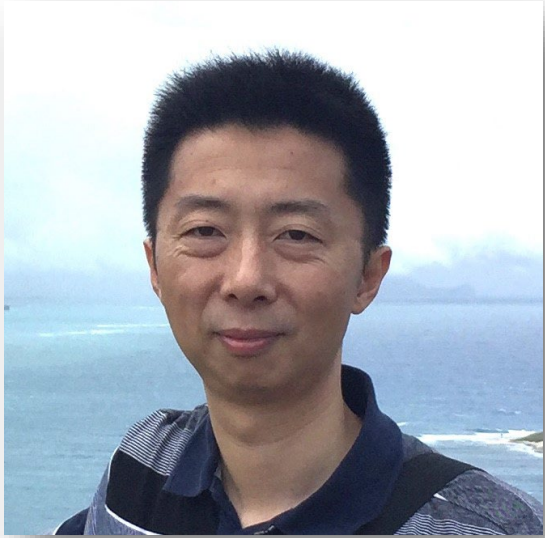
Qian “Karen” Sun



Louisiana State University

- **Lab website:** <https://www.qiansunlab.com>
- **Publications (2023-2024):**
 - 1 book chapter and 6 peer-reviewed article
- **Grants:**
 - NSF (\$613,556), PI, 2024-2027
 - Louisiana Department of Agriculture and Forestry (\$50,000), PI, 2024-2025
- **Career development/tenure/promotion/awards:**
 - Promoted to Associated Professor with tenure
- **Student achievements:**
 - Hasim Hakanoglu (PhD student) received a research grant (\$5,000) from the Louisiana Beekeepers Association, and a travel award (\$739) from the International Union for the Study of Social Insects (IUSSI)

Dr. Hua Yan, Associate Professor



University of Florida

- **Lab website:** <https://biology.ufl.edu/hua-yan/>
<https://yanlab.biology.ufl.edu>
- **Publications (2023-2024)**
Published articles in *Science Advances*
- **Grants**
Research supported by grants from NIH and CAMTech

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New promotion

Dr. Zinan Wang, University of Kentucky,
New Assistant Professor

Dr. Shaohui Wu, Ohio State University,
New Assistant Professor

Dr. Fei Yang, University of Minnesota,
Assistant Professor & Extension Entomologist

