

Dr. Jenny Q. Ouyang
Curriculum vitae

University of Nevada, Reno
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EDUCATION

- 2012 Ph.D. in Ecology and Evolutionary Biology (Princeton University)
Adviser: Michaela Hau
Title: What makes an individual successful? Individual variation in hormones, behavior, and fitness
- 2009 M.A. in Ecology and Evolutionary Biology (Princeton University)
GPA: 4.0
- 2007 B.S. in Biology (University of California, Irvine)
Thesis advisers: Nancy Burley and George L. Hunt, Jr.
(Honors in Major, GPA: 3.93, *Magna Cum Laude*)
- B.A. in French (University of California, Irvine)
(Honors in Major, GPA: 3.93, *Magna Cum Laude*)
- 2005 Coursework at Shoals Marine Laboratory (Cornell University)

APPOINTMENTS

- 2016-present Assistant professor, University of Nevada, Reno
- 2013-2015 National Science Foundation Postdoctoral Fellow, Netherlands Institute of Ecology
(Funding: NSF DBI-1306025 to JQO)
Collaborators: Kamiel Spoelstra and Marcel Visser
- 2012-2013 Postdoctoral Associate, Virginia Tech
(Funding: NSF IOS-1145625 to FB, MH, & ITM)
Collaborators: Frances Bonier, Mark Haussmann, and Ignacio Moore

PUBLICATIONS

<https://orcid.org/0000-0002-5111-5145>; h-index: 22; citations: 1496

[39] Baldan, D., Negash, M. †, **Ouyang, J.Q.** 2021. Are individuals consistent? Endocrine reaction norms under different ecological challenges. *Journal of Experimental Biology* 224 (12).

[38] Alaasam, V.J., Xiu L., Zhang Y., Niu Y., Ferguson B., Pieraut S., **Ouyang J.Q.** 2021. Effects of dim artificial light at night on locomotor activity, cardiovascular physiology, and circadian clock genes in a diurnal songbird. *Environmental Pollution*, 282.

[37] Alaasam, V.J., & **Ouyang, J.Q.** 2021. The power of large-scale community science in addressing anthropogenic change. *Global Change Biology*, 27(17). *invited dispatch

[36] Heppner, J. J., & **Ouyang, J. Q.** 2021. Incubation behavior differences in urban and rural house wrens, *Troglodytes aedon*. *Frontiers in Ecology and Evolution*, 9(89).

[35] **Ouyang, J. Q.**, Macaballug, P. †, Chen, H. †, Hodach, K †, Tang, S. †, & Francis, J. S. 2021. Infrared thermography is an effective, noninvasive measure of HPA activation. *Stress*, 1-6.

Fall 2021: Maternity leave

[34] Grant, A. R., Baldan, D., Kimball, M. G., Malisch, J. L., & **Ouyang, J. Q.** 2020. Across time and space: Hormonal variation across temporal and spatial scales in relation to nesting success. *General and Comparative Endocrinology*, 292, 113462.

[33] Baldan, D., & **Ouyang, J. Q.** 2020. Urban resources limit pair coordination over offspring provisioning. *Scientific Reports*, 10(1), 15888.

[32] Vagasi, C., Tóth, Z., Péntzes, J., Pap, P. L., **Ouyang, J. Q.**, & Lendvai, Á. Z. 2020. The Relationship between Hormones, Glucose and Oxidative Damage is Condition- and Stress-dependent in a Free-living Passerine Bird. *Physiological and Biochemical Zoology*.

[31] Zhou, Y., Chen, A., **Ouyang, J. Q.**, Liu, Y., Zheng, A., Yang, Z., Lu, C. 2020. Comparing community birdwatching and professional bird monitoring with implications for avian diversity research: a case study of Suzhou, China. *Avian Research*, 11(1), 19.

[30] Injaian, A. S., Francis, C. D., **Ouyang, J.Q.**, Dominoni, D. M., Donald, J. W.*, Fuxjager, M. Goymann, W.*, Hau, M.*, Husak, J.F.*, Johnson, M.A.*, Kircher, B.K.*. Knapp, R.*, Martin, L.B.*, Vitousek, M.N. 2020. Baseline and stress-induced corticosterone levels across birds and reptiles do not reflect urbanization levels. *Conservation Physiology*, 8

*Authors in alphabetical order

[29] **Ouyang J.Q.**, Baldan, D., Munguia, C. †, & Davies, S. 2019. Genetic inheritance and environment determine endocrine plasticity to urban living. *Proceedings of the Royal Society B: Biological Sciences*, 286, 1908.

Media: *Discovery News, Science News*

Fall 2019: Maternity leave

[28] **Ouyang, J.Q.**, Isakkson, C., Schmidt, C., Hutton, P., Bonier, F., Dominoni, D. 2018. A new framework for urban ecology: An integration of ultimate and proximate responses to anthropogenic change. *Integrative and Comparative Biology* 58, 915-928.

[27] Toth, Z., **Ouyang, J.Q.**, Lendvai, A. 2018. Exploring the mechanistic link between corticosterone and insulin-like growth factor-1 in a wild passerine bird. *PeerJ* 6, e5936.

[26] Alaasam, V.J., Duncan, R., Casagrande, S., Davies, S., Sidher, A., Seymoure, B., Shen, Y., Zhang, Y. & **Ouyang, J.Q.** 2018. Light at night disrupts nocturnal rest and elevates glucocorticoids at cool color temperatures. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology* 0.

- [25] Jong, M., Lamers Koosje, P., Eugster, M., **Ouyang, J.Q.**, Da Silva, A., Mateman, A.C., Grunsven Roy, H.A., Visser Marcel, E. & Spoelstra, K. 2018. Effects of experimental light at night on extra-pair paternity in a songbird. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology* 0.
- [24] **Ouyang, J.Q.**, Davies, S. & Dominoni, D. 2018. Hormonally mediated effects of artificial light at night on behavior and fitness: linking endocrine mechanisms with function. *The Journal of Experimental Biology* 221.
- [23] Davies, S, Haddad, N. †, **Ouyang, JQ.** 2017. Stressful city sounds: glucocorticoid responses to experimental traffic noise are environmentally-dependent. *Biology letters*.
Media: NPR, KUNR News, *Science News*
- [22] **Ouyang JQ**, de Jong M, van Grunsven RHA, Matson KD, Hausmann MF, Meerlo P, Visser ME, Spoelstra K. 2017. What type of rigorous experiments are needed to investigate the impact of artificial light at night on individuals and populations? *Global Change Biology*.
- [21] **Ouyang JQ**, de Jong M, van Grunsven RHA, Matson KD, Hausmann MF, Meerlo P, Visser ME, Spoelstra K. 2017. Restless roosts: Light pollution affects behavior, sleep, and physiology in a free-living songbird. *Global Change Biology*.
Media: *Frontiers in Ecology and Evolution Press* interview, front page of magazine
- [20] Welbers AAMH, van Dis NE, Kolvoort AM, **Ouyang JQ**, Visser ME, Spoelstra K, Dominoni DM. 2017. Artificial Light at Night Reduces Daily Energy Expenditure in Breeding Great Tits (*Parus major*). *Frontiers in Ecology and Evolution* 5(55).
- [19] de Jong, M., **Ouyang, J.Q.**, van Grunsven, R.H.A., Visser, M.E., Spoelstra, K. 2016. Do wild great tits avoid exposure to light at night? *PLoS ONE* 11(6): e0157357.
- [18] Dakin R., **Ouyang J.Q.**, Lendvai Á.Z., Hausmann M.F., Moore I.T., Bonier F. 2016. Weather matters: begging calls are temperature- and size-dependent signals of offspring state. *Behaviour* 153(8):871-896.
- [17] **Ouyang, J.Q.***, Lendvai, Á.Z.*, Moore I.T., Bonier F., Hausmann, M.H. 2016. Do hormones, telomere lengths, and oxidative stress form an integrated phenotype? A case study in free-living tree swallows. *Integrative and Comparative Biology*. 56(2):138-145.
 *authors contributed equally, shared first-authorship
- [16] Hau, M., Casagrande, S., **Ouyang, J.Q.**, Baugh, A.T. 2016. Glucocorticoid-mediated phenotypes in vertebrates: multilevel variation and evolution. *Advances in the Study of Behavior* 48: 41-115.
- [15] de Jong M., Jeninga L., **Ouyang J.Q.**, van Oers K., Spoelstra K., Visser M.E. 2016. Dose-dependent responses of avian daily rhythms to artificial light at night. *Physiology & Behavior* 155: 172-179.
- [14] Dakin, R., Lendvai, A.Z., **Ouyang, J.Q.**, Moore, I.T., Bonier, F. 2016. Plumage colour is associated with partner parental care in mutually ornamented tree swallows. *Animal Behaviour* 111: 111-118.
- [13] **Ouyang, J.Q.*** Lendvai, Á.Z.*, Dakin, R., Domalik, A.D.†, Fasanello, V.J.†, Vassallo, B.G. †, Hausmann, M.F., Moore, I.T., & Bonier, F. 2015. Weathering the storm: parental effort and stress hormones predict brood survival. *BMC Evolutionary Biology* 15: 219

*authors contributed equally, shared first-authorship

[12] **Ouyang, J.Q.**, de Jong, M., Hau, M., Visser, M.E., van Grunsven, R.H.A. & Spoelstra, K. 2015. Stressful colours: corticosterone concentrations in a free-living songbird vary with the spectral composition of experimental illumination. *Biology Letters* 11

Press coverage: *The Guardian*

Key teaching text at the University of Liverpool

[11] Lendvai, Á.Z., Akçay, Ç., **Ouyang, J.Q.**, Dakin, R., St. John, P.S., Stanback, M., Moore, I.T., and Bonier, F. 2015. Analysis of the optimal duration of behavioral observations on an automated continuous monitoring system in tree swallows (*Tachycineta bicolor*): is one hour good enough? *PLoS One*, 9, e110564

[10] de Jong, M., **Ouyang, J.Q.**, Silva, A. van Grunsven, R.H.A., Kempenaers, B., Visser, M.E., & Spoelstra, K. 2015. Nocturnal illumination of habitat: altered life-history decisions and effects on fitness in wild birds. *Philosophical Transactions of the Royal Society B: Biological Sciences* 370.

[9] **Ouyang, J.Q.**, van Oers, K., Quetting, M., & Hau, M. 2014. Becoming more like your mate: hormonal similarity reduces divorce rates in a wild songbird. *Animal Behavior* 98, 87-93.

Media: *Discovery News, BBC, IFLoveScience article*

[8] Lendvai, A.Z.* **Ouyang, J.Q.***, Schoenle, L.A., Fasanello, V.J.†, Haussmann, M.F., Moore, I.T., & Bonier, F. 2014. Experimental food restriction reveals individual differences in corticosterone reaction norms with no oxidative costs. *PLoS One* 9, e110564.

*authors contributed equally, shared first-authorship

[7] **Ouyang, J.Q.**, Sharp, P., Quetting, M. & Hau, M. 2013. Endocrine phenotype, reproductive success and survival in the great tit, *Parus major*. *Journal of Evolutionary Biology* 26: 1988-98.

[6] **Ouyang, J.Q.**, Muturi, M.†, Quetting, M. & Hau, M. 2013. Small increases in corticosterone before the breeding season increase parental investment but not fitness in a wild passerine bird. *Hormones and Behavior* 63: 776-781.

[5] **Ouyang, J.Q.**, Quetting, M., Hau, M. 2012. Corticosterone and brood abandonment in a passerine bird. *Animal Behaviour*: 84, 261-268.

Media: *Discovery News*

[4] **Ouyang, J.Q.**, Hau, M., Bonier, F. 2011. Within seasons and among years: when are corticosterone levels repeatable? *Hormones and behavior*: 60, 559-564.

[3] **Ouyang, J. Q.**, Sharp, P. J., Dawson, A., Quetting, M., Hau, M. 2011. Hormone levels predict individual differences in reproductive success in a passerine bird. *Proceedings of the Royal Society B: Biological Sciences* 278: 2537-2545.

Media: *Science Daily, Cell News, e! Science News, The Daily Princetonian*

[2] Cordoba-Cordoba, S., **Ouyang, J.Q.**, Hauck, S. J. Nesting preferences and population estimates of a new Black Noddy (*Anous minutus*) breeding colony on One Tree Island, Great Barrier Reef., *Marine Ornithology* 38: 79–84.

Book Chapters

[1] **Ouyang, J.Q.**, 2018. Endocrine control of reproduction in birds, In *Encyclopedia of Reproduction*. M. Skinner and P. Swanson eds. Elsevier.

In review

von Holdt, B., Kartzinel, R.K., van Oers, K. Verhoeven, K.J.F., **Ouyang, J.Q.** Reorganization of molecular networks associated with DNA methylation and changes in the rearing environments of the house wren (*Troglodytes aedon*). Resubmitted to *Molecular Ecology*

White, J.H., Heppner, J.J., **Ouyang, J.Q.** Increased lead and glucocorticoid concentrations reduce reproductive success in House Sparrows along an urban gradient. Resubmitted to *Ecological Applications*

Lendvai, A.Z., & **Ouyang, J.Q.** Hormonal plasticity to food restriction is heritable. In review at *Evolution*

Other **Ouyang, J. Q.** 2005. Diets of adult and chick western gulls on Santa Barbara Island. *Journal of Undergraduate Research in the Biological Sciences* 35: 703-714.

‡Denotes undergraduate collaborator

RESEARCH GRANTS AND FELLOWSHIPS		
2019-2022	\$431,567	NIH R15ES030548 Circadian disruption and consequences of light pollution (PI)
2017-2019	\$160,430	NSF OIA-1738594 Mechanisms underlying transgenerational inheritance of the stress phenotype (PI)
2017-2019	\$420,000	NIH P20 GM103650 Neurosensory function in response to artificial light at night (Project leader , PI: Mike Webster)
2014	€150,000	Hungarian Scientific Research Fund OTKA Fountain of youth: insulin regulatory mechanisms (Co-PI ; PI: Ádám Lendvai)
2013	\$151,416	National Science Foundation Postdoctoral Research Fellowship in Biology (DBI-1306025)
2007-2012	\$90,000	National Science Foundation Graduate Research Fellowship Program (DGE-0646086)
2011	\$1,200	Frank M. Chapman Memorial Grant
2011	\$1,000	Society for Integrative and Comparative Biology Grant-in-Aid of Research
2009	\$2,000	Princeton University Summer Research Grant
2008	\$1,000	Sigma Xi Grant-in-Aid of Research
2007	\$68,000	Princeton First Year Graduate Fellowship
2003-2007	\$36,000	Universities of California, Regent's Scholar
2006	\$14,000	Barry M. Goldwater Fellowship

TEACHING QUALIFICATIONS AND EXPERIENCE**Courses taught:**

Instructor, University of Nevada, Reno (BIO 316 Comparative Animal Physiology, spring 2017, fall 2017, 2018, 2020)

Instructor, University of Nevada, Reno (BIO 414 Endocrinology, fall 2020)

Professional Training Course for early graduate students:

From 2018-current, I co-organize a seminar series called “How to Science”. This series is focused on professional development for graduate students (early). We met with department graduate students (EECB, INP) biweekly to discuss topics such as time management, preparing papers, grants and manuscripts, communication with PIs, self-assessment and self-pedagogy.

Assistant Instructor, 2010, Princeton University (EEB 327, Evolution of the Immune System)

Assistant Instructor, 2008, Princeton University (EEB 211 Introductory Biology Lab)

As an assistant instructor at Princeton, I gave lectures and oversaw student projects. I designed and coordinated the discussion sessions and guided final student papers, including instruction on statistical analysis.

Teaching Assistant, 2005, UC Irvine (E106 Evolutionary Processes)

As a teaching assistant at UC Irvine, I led discussion sessions and tutored students.

Invited guest lectures:

Fall 2013 Virginia Tech (Animal Physiology) – eight weeks

Spring 2012 Princeton University (Comparative Physiology) – two lectures

Qualifications:

Completed “Teaching Transcript” Pedagogy Program, McGraw Center, Princeton University (2007-2012)

Attended teaching orientation & pedagogy programs, served as teaching assistant & received feedback, developed teaching statement & course syllabus

Teaching awards:

2018 Nominated, Paul and Judy Bible University Teaching Excellence Award

2017, 2019 Awarded Westfall Scholar Mentor award from University of Nevada, Reno

I was a mentor for Westfall awardees, Jeanette Liou and Edgar Lopez

2008 Teaching Service Award (K-12 education), Princeton University

2007 Language Teaching Award, UC Irvine

STUDENT AND POSTDOC MENTORING

Since arrival at UNR in 2016, I have supervised 34 undergraduate students (10 with honors theses, 7 with co-authored publications). Currently, I supervise 4 graduate students and 9 undergraduates.

Graduate students

2021-present Ivan Celso Provinciato, Urbanization and timing of breeding. Dean’s Merit Fellowship. PhD, EECB

2020-present Cassandra Hui, Neurosensory and circadian disruptions due to light pollution. PhD, Integrative neuroscience

2018-present Jennifer Heppner, Urbanization and maternity effects. PhD, EECB

2017-present Valentina Alaasam. Effects of artificial light at night on behavior and physiology. PhD, EECB (awarded NSF GRFP)

2017-2019 Avery Grant. Physiological control of facultative altitudinal migration. MSc Biology. 2019. Now a PhD student in EECB, UNR.

I am serving (or have served) as a committee member for the following graduate students at UNR and other universities (N=8):

- Alexa Lindaeur (Biology MSc awarded, 2016-2018)
- Aman Kohli (Biology MSc awarded, 2017-2019)
- Zachery Forsburg (PhD awarded, Texas State University, 2016-2020)
- Ivana Ilic (INS MSc student, 2019-2021)
- Angela Pitera (EECB PhD student, 2016-present)
- Tessa Behnke (EECB PhD student, 2017-present)
- Alison Agneray (EECB PhD student, 2017-present)
- Ben Sonnenberg (EECB PhD student, 2018-present)
- Lauren Benedict (EECB PhD student, 2019-present)
- Akhila Gopal (EECB PhD student, 2020-present)
- Guillermo Costoya (EECB PhD student, 2021-present)
- Kevin Pham (PhD student, University of Auburn, 2021-present)

Prior to UNR Student Supervision

2015-2017	Annemieke Kolvoort. Insect abundance under artificial light at night. <i>Master's thesis, Utrecht University</i>
2014-2016	Sofia Scheltinga. Spatial movement of great tits under artificial light. <i>Master's thesis, Utrecht University</i>
2013-2014	Alice Domalik. Individual differences in the neophobia and corticosterone. <i>Undergraduate honors thesis, Queen's University</i>
2011-2012	Marion Muturi. Behavioral correlates of hormone manipulation. <i>MSc diploma thesis, University of Konstanz</i>
2006-2007	Clairose Retino. Begging calls and sex allocation. <i>Undergraduate thesis, University of California, Irvine</i>

Undergraduate Students

(n= 44; 61% female, 89% from underrepresented groups or 1st generation students)

Undergraduates are key members of my research team. Several have published papers from my lab and have gone onto research careers (see teaching portfolio for details). >90% are in graduate school or professional careers. Most have received awards or scholarships to perform research in my lab.

I am an advisor for the following students at UNR:

- Arumina Chakraborty (senior Honor's thesis, Mead Research Award)
- Nadya Chen (PREP scholar)
- Keenan Downs (undergraduate lab leader)
- Kerstyn Sterling (NURA)
- Julia Frediani (current lab manager)
- Priya Ralhi (independent study)
- Nabeel Mir (independent study)
- Murphy Walters (independent study)
- Kirsten Countryman (independent study)

I was an advisor for the following students at UNR:

- Jordyn Becker (senior Honor's thesis)

- Kelsey Kjer (senior Honor's thesis, Moose Award)
- Jewel Lapira (senior Honor's thesis, NURA)
- Mekail Negash (McNair Fellowship, NURA)
- Jacquelynn Tran (senior Honor's thesis, NEXUS fellow)
- Sarah Swanbeck (senior Honor's thesis)
- Rohit Billikanti (independent study)
- Kelsie Ballas (independent study)
- XueYing Zheng (independent study)
- Veronica del Mar (independent study)
- Taylor Rose (independent study)
- JiaYi Cen (independent study)
- Ryan Fung (independent study, research assistant)
- Edgar Lopez (independent study, Westfall Scholar)
- Paul Macaballug (senior Honor's thesis, TriBeta Research Fellowship, NURA, submitted a paper for his research)
- Morgan Ferguson (senior Honor's thesis)
- Kristiana Hodach (independent study, submitted a paper for her research)
- Hao Chen (independent study, submitted a paper for his research)
- Shelly Tang (independent study, submitted a paper for her research)
- Steve Burgos (independent study)
- David Vijay (independent study)
- Kelsey Denning (independent study)
- Dante Staten (independent study)
- Parker Grossman (independent study)
- Daniel Marquez (independent study)
- Evan Standifer (independent study)
- Heather McNair (independent study)
- Alexandra Cushman (independent study)
- Brooke O'Neill (independent study)
- Kyra Moore (independent study)
- Nathan Goncalves (independent study)
- Crystal Munguia (independent study, NURA, published a paper for her research)
- Jeanette Liou (independent study, Westfall scholar)
- Nicole Haddad (senior Honor's thesis, HURA, published a paper for her research)

Senior theses completed

- Nicole Haddad (Honors thesis) "Measuring noise-induced stress in rural and urban Songbirds" May 2017
 - Published in *Biology Letters*
 - Awarded HURA
- Morgan Ferguson (Honors thesis) "The effects of exogenous ACTH on aggression in Mountain Chickadees" May 2018
- Paul Macaballug (Honors thesis) "Imaging stress: developing a non-invasive method to quantify the stress response " May 2019
 - Published in *Stress*
 - Awarded TriBeta and NURA

- Jacquelynn Tran (Honors thesis) " Food availability influencing songbird fitness in urbanized landscapes " May 2020
 - Awarded UROP
 - Awarded Henry Albert Service Award
- Jordyn Becker (Honors thesis) "Differences in parental coordination in urban and rural environments" May 2020
- Mekail Negash (McNair thesis) "Testing endocrine flexibility under different environmental stressors" May 2020
 - Awarded NURA
- Kelsey Kjer (Honors thesis) "Songbird behavior under artificial light at night" May 2020
 - Awarded Moose Award
- Jewel Lapira (Honors thesis) "Effects of acute stress on associative learning and memory in the house sparrow" May 2020
 - Awarded NURA
- Sarah Swanbeck (Honors thesis) "Measuring yolk testosterone in urban and rural house wrens" May 2020

Senior theses in progress

- Arumina Chakraborty (Honors thesis) "Early-gene expression in response to light pollution." Expected May 2022
 - Awarded Mead Undergraduate Research Award
 - Awarded UROP NSF EPSCoR undergraduate research award
- Julia Frediani (Honors thesis) "Resources and parental differences due to urbanization" Expected May 2022
- Nabeel Mir (Honors thesis) "Testosterone and maternal effects in urban house wrens." Expected May 2022

Postdoc supervision:

2019-2021 Dr. Davide Baldan, currently Marie Curie fellow
 Dr. Baldan is now a Marie Curie seal of excellence fellow at the University of Padova, Italy. In the time he has been at UNR, he helped supervise one graduate student and two undergraduate theses. We have published four papers together.

2016-2018 Dr. Scott Davies, currently Assistant Professor at Quinnipiac University
 Dr. Davies was a key member of the lab when I first joined UNR, helping to set up the neuroendocrine labs. We have published four papers together and are still collaborating on one more.

I emphasize grantsmanship and scholarship in my lab. My students have been active in seeking funds for their own research, netting 13 awards from intramural and extramural sources that total more than \$150,000. All my current and previous graduate students have published manuscripts from their work.

Summary			
Students	Grants	Scholar/fellowships	total
Undergraduates	\$16,500	\$8,000	\$24,500
Graduates	\$18,084	\$117,706	\$135,790
Postdocs		\$140,616	\$140,616
			\$300,906

PRESENTATIONS

Invited Seminars:

2021	Pennsylvania State University, University Park, PA
2021	Louisiana State University, Baton Rouge, LA
2020	University of California, Davis, CA (talks to two departments)
2019	University of California, Berkeley, Berkeley, CA
2018	University of Indiana, Bloomington, IN
2018	Utah State, Logan, UT (declined due to maternity leave)
2018	Texas State University, San Marcos, TX (declined due to maternity leave)
2018	Binghamton University, NY (declined due to maternity leave)
2015	University of Nevada, Reno, NV
2015	Hamilton College, Clinton, NY
2014	Konrad Lorenz Institute of Ethology, Vienna, Austria
2014	Max Planck Institute of Ornithology, Seewiesen, Germany
2014	Australia National University, Canberra, Australia
2014	University of Debrecen, Hungary
2013	Cornell University, Ithaca, NY, USA
2013	Bucknell University, Lewisburg, PA, USA
2012	Utrecht University, Utrecht, the Netherlands
2012	International Symposium on Avian Endocrinology, Gifu, Japan
2011	Netherlands Institute of Ecology, Wageningen, the Netherlands

Selected Meeting Presentations:

2018	Ouyang, J.Q. An integrative framework for urban ecology. <i>Symposium organizer. Society of Integrative and Comparative Biology</i> , San Francisco, CA
2017	Ouyang, J.Q. , Restless roosts: light pollution and effects. <i>Society of Integrative and Comparative Biology</i> , New Orleans, LA, USA
2016	Ouyang, J.Q. , Light pollution affects behavior and physiology. <i>International Society of Behavioral Ecology</i> . Exeter, UK. Ouyang, J.Q. , Endocrine variation as a mediator of life-history evolution: the relationship between hormones and fitness in a fluctuating environment. Invited Symposium Speaker. <i>Society of Integrative and Comparative Biology</i> , Portland, OR, USA.
2015	Ouyang, J.Q. , Hormonal regulation of divorce. <i>Society of Integrative and Comparative Biology</i> , Palm Beach, FL, USA
2014	Ouyang, J.Q. , For better or for worse: hormone similarity and pair bond dynamics. <i>Netherlands Society of Behavioural Biology</i> . Soesterberg, the Netherlands. Ouyang, J.Q. , de Jong, M., Visser, M.E., & Spoelstra, K. Movement and activity of free living Great Tits, <i>Parus major</i> , under different spectra of artificial light. <i>International Conference on Artificial Light at Night</i> , Leicester, UK. Ouyang, J.Q. , Lendvai, A.Z., Dakin, R., Domalik, A.D., Fasanello, V.J., Vassallo, B.G., Haussmann, M.F., Moore, I.T., & Bonier, F. Weathering the storm: parental effort and stress hormones predict brood survival. <i>Society of Integrative and Comparative Biology</i> , Austin, TX, USA
2013	Ouyang, J.Q. , Individual differences in behavior, physiology, and fitness. <i>International Conference on Individual Differences</i> . Groningen, the Netherlands. Ouyang, J.Q. , Hau, M. Stressed males abandon reproduction. <i>Society of Integrative and Comparative Biology</i> . San Francisco, USA

- 2012 **Ouyang, J.Q.**, Sharp, P., Quetting, M., Hau, M. Hormones as mediators of life-history trade-offs. *International Symposium on Avian Endocrinology*. Gifu, Japan
- 2011 **Ouyang, J.Q.**, Muturi, M., Quetting, M., Hau, M. 2011. Effects of corticosterone on reproductive decisions and parental behavior. *Society of Experimental Biology*. Glasgow, UK
- Ouyang, J. Q.**, Sharp, P. J., Dawson, A., Quetting, M., Hau, M., Hormone levels predict individual differences in reproductive success. *Society of Integrative and Comparative Biology*. Salt Lake City, USA
- 2007 **Ouyang, J.Q.**, Burley, N.T., Sex recognition of young by adult zebra fishes. *Animal Behavior Society*. Burlington, USA
- 2005 **Ouyang, J.Q.**, Hunt, G.L. Diets of adult and chick western gulls on Santa Barbara Island. *Southern California Research Conference*. Riverside, USA

AWARDS

- 2013 Broadening Participation Grant, Society of Integrative and Comparative Biology (\$500)
- 2011 National Science Foundation Graduate Fellowship travel grant (\$1,000)
- 2011 Society for Experimental Biology Travel Grant (\$244)
- 2011 Society of Integrative and Comparative Biology Travel Award (\$500)
- 2008 International Society for Behavioral Ecology Travel Award (\$500)
- 2007 Joseph H. Stephens Grant for Excellence in Research (\$700)
- 2006 University of California summer research grant for undergraduates (\$1,500)
- 2005 Universities of California Leadership Excellence through Advanced Degrees (\$5,000)
- 2003-2007 Robert C. Byrd Scholarship (\$2,000)

SERVICE

Education and mentorship:

- 2016-present Nest-Watchers (designed nest box and feeders for Mt. Rose Elementary for students to observe and record bird abundance; monthly talks to grades 4-6), founder and coordinator
- 2011-present Video Tutor (development of biology teaching videos for high school biology and providing these videos to schools with no access to biology text books), Biology Team
- 2008-2016 Content editor and web design: Animal Behavior Society, Education Committee
Content contributor and editor: Animal Behavior Society social media pages
- 2008-2012 Graduate Student Mentorship Program, founder and board member, Princeton University
- 2009-2011 Community House graduate adviser, Princeton University
- 2007-2009 Graduate Student Representative for Ecology and Evolutionary Biology, Princeton University

Committees

- 2017-present Graduate awards committee, Ecology Evolution Conservation Biology, University of Nevada, Reno
- Spring 2019 LeMay Teaching Award committee for the College of Science
- Fall 2018 Search committee, Faculty position in ecology, University of Nevada, Reno
- Fall 2017 Search committee, Faculty position in physiology, University of Nevada, Reno
- Spring 2016 Faculty retreat organizer, University of Nevada, Reno
- 2016-present Undergraduate and graduate research grants and symposium judge, 3-minute thesis judge

Review activities:

Journals: *Animal Biology*, *Behavioral Ecology*, *Behavioral Ecology and Sociobiology*, *Behavioral Processes*, *Biology Letters*, *BMC Ecology*, *Comparative Biochemical Physiology*, *Conservation Physiology*, *Current Zoology*, *Current Opinions in Insect Science*, *Emu*, *Environmental Pollution*, *Evolution*, *Frontiers in Ecology and Evolution*, *Functional Ecology*, *General and Comparative Endocrinology*, *Global Change Biology*, *Hormones and Behavior*, *Integrative and Comparative Biology*, *Journal of Animal Ecology*, *Journal of Avian Biology*, *Journal of Applied Ecology*, *Journal of Experimental Biology*, *Journal of Experimental Zoology*, *Journal of Evolutionary Biology*, *Molecular Ecology*, *Nature Scientific Reports*, *Oecologia*, *Philosophical Transactions of the Royal Society B*, *Physiological and Biochemical Zoology*, *Proceedings of the Royal Society B*, *Rangeland Ecology & Management*, *Wilson Journal of Ornithology*

Grant agencies: Austrian Science Fund (FWF), National Science Centre, Poland; National Science Foundation, USA; Research Grants Council of Hong Kong, US-ISRAEL BARD

Editorial Boards:

2018- present: *Ecology and Evolution* (associate editor)

2016- present: *Frontiers in Ecology and Evolution* (Social Evolution, Urban Ecology)

PROFESSIONAL MEMBERSHIPS

Society of Integrative and Comparative Biology (2010-present)

Animal Behavior Society (2006-present)

Society of Experimental Biology (2011-2012)

Sigma Xi (2008-2011)

LANGUAGE SKILLS

English: native fluency

German: conversational fluency

Mandarin Chinese: native fluency

Dutch: conversational fluency

French: business fluency

Italian: elementary fluency

COLLABORATORS

Epigenetics and glucocorticoid responses (NSF OIA-1738594)

Bridgett von Holdt (Princeton University)

Kees van Oers (Netherlands Institute of Ecology)

Koen Verhoeven (Netherlands Institute of Ecology)

The role of glucocorticoids in mediating life history tradeoffs (NSF IOS-1145625)

Frances Bonier (Queen's University, Canada)

Mark Haussmann (Bucknell University, USA)

Ádám Lendvai (Virginia Tech, USA)

Ignacio Moore (Virginia Tech, USA)

Individual variation in hormones, behavior, and fitness (NSF DBI-1306025)

Michaela Hau (Max Planck Institute of Ornithology, Germany)

Peter Sharp (University of Edinburgh, UK)

Insulin regulation and life-history evolution (OTKA funded)

Zoltán Barta (University of Debrecen, Hungary)

Tökölyi Jácint (University of Debrecen, Hungary)

Ádám Lendvai (University of Debrecen, Hungary)

The effect of artificial light on stress physiology, neurobiology, and circadian rhythms (NIH funded)

Yong Zhang (University of Nevada, Reno)
Simon Pieraut (University of Nevada, Reno)
Safer cities: stress physiology and reproduction in urbanized environments
Yue Hua Sun (Chinese Academy of Sciences, China)
Shu Ping Zhang (Mingzu University, China)