Auburn University Email: kny0004@auburn.edu

101 Life Science Building,

Auburn, AL,

USA 36849

**Kang Nian (Jeff) Yap**

**Employment History:**

2019-present Post-doctoral Fellow, Department of Biological Sciences, Auburn University, Alabama, USA.

2013-2018 Graduate Research and Teaching Assistant, Department of Biological Sciences, Simon Fraser University, Burnaby, Canada.

**Education:**

2013-2018 PhD, Biological Sciences, Simon Fraser University, Burnaby, Canada.

2009-2013 B.A, Psychology, University of British Columbia, Vancouver, Canada.

**Google Scholar h-index: 7; Total citations: 98**

**Publications:**

***\* Denotes undergraduate author***

**Manuscripts in review/revision:**

1**. KN. Yap** and Y. Zhang. Revisiting the question of nucleated versus enucleated erythrocytes in birds and mammals. *In revision for American Journal of Physiology- Regulatory, Integrative, and Comparative Physiology.* (2021).

**Published manuscripts:**

15. Y. Zhang, **KN. Yap**, K.T. David, D.L. Swanson. The high-energy aerial insectivore lifestyle of swallows does not produce clear thermogenic side effects. *Ornithology*. *In Press.* (2021). [Impact Factor: 2.144, Citations: 0]

14. **KN. Yap,** D.R. Powers, M.L. Vermette\*, O. Tsai\*, T.D. Williams. Physiological adjustments to high foraging effort negatively affect fecundity but not final reproductive output in captive zebra finches. *Journal of Experimental Biology*. *224(8), jeb235820*. (2021). [Impact Factor: 3.017, Citations: 1]

13. **KN. Yap**, D.R. Powers, M.L. Vermette\*, O. Tsai\*, T.D. Williams. Sex-specific energy management strategies in response to training for increased foraging effort prior to reproduction. *Journal of Experimental Biology. 224(8), jeb235846.* (2021). [Impact Factor: 3.017, Citations: 0]

12. **KN. Yap,** K.Y.H. Yamada, S.L. Zikeli, H. Kiaris, W.R. Hood. Evaluating endoplasmic reticulum stress and unfolded protein response through the lens of ecology and evolution. *Biological Reviews*, *96(2), 541-556.* (2021). [Impact Factor: 10.701, Citations: 2]

11. N.R. Park, H.A. Taylor, V.A. Andreasen, A.S. Williams, K. Niitepold, **KN. Yap**, A.N. Kavazis, W.R. Hood. Effect of parity on the bioenergetic capacity of laboratory mice. *Journal of Comparative Physiology B.,* *190, 465-477.* (2020). [Impact Factor: 2.341, Citations: 0]

10. W.R. Hood, Y. Zhang, H.A. Taylor, N.R. Park, A.E. Beatty, R.J. Weaver, **KN. Yap**, A.N. Kavazis. Prior reproduction alters how mitochondria respond to an oxidative event. *Journal of Experimental Biology*. *jeb-195545.* (2019). [Impact Factor: 3.017, Citations: 2]

9**. KN. Yap,** O. Tsai\*, T.D. Williams. Haematological traits co-vary with migratory status, altitude and energy expenditure: a phylogenetic, comparative analysis. *Scientific Reports,* *9, 6351.* (2019). [Impact Factor: 4.011, Citations: 5]

8. **KN. Yap**, M.F. Dick, C.G. Guglielmo, T.D. Williams. Effects of experimental manipulation of hematocrit on avian flight performance in high and low altitude conditions. *Journal of Experimental Biology, 221(22), jeb191056.* (2018). [Impact Factor: 3.017, Citations: 9]

7. Y. Zhang, **KN. Yap (co-first author)**, T.D. Williams, D.L. Swanson. Experimental increases in foraging costs affect pectoralis muscle mass and myostatin expression in zebra finches (*Taeniopygia guttata*). *Physiological and Biochemical Zoology, 91(3), 849-858.* (2018). [Impact Factor: 1.873, Citations: 6]

6. **KN. Yap,** O. Kim\*, K. C. Harris\*, and T. D. Williams. Physiological effects of increased foraging effort in a small passerine. *Journal of Experimental Biology*, *220*(22), 4282-4291. (2017). [Impact Factor: 3.017, Citations: 14]

5. **KN. Yap,** M. W. Serota, T.D. Williams. The physiology of exercise in free-living vertebrates: what can we learn from current model systems. *Integrative and Comparative Biology,* 57(2), 195-206. (2017). [Impact Factor: 3.101, Citations: 20]

 ***Invited Review.*** [Special issue: The Ecology of Exercise: Mechanisms Underlying Individual Variation in Movement Behavior, Activity or Performance.]

4. N. H. Prior, **KN. Yap**, M. C. Mainwaring, H. H. Adomat, O. L. Crino, C. Ma, E. S. Guns, S. C. Griffith, K. L. Buchanan, K. K. Soma. Sex steroid profiles in zebra finches: effects of reproductive state and domestication. *General and comparative endocrinology,* 244, 108-117. (2017).[Impact Factor: 2.675, Citations: 7]

 [Special issue on ‘Australian animals’]

3. N. H. Prior, **KN. Yap**, T. D. Q. Liu, C. Vignal, and K. K. Soma. Context-dependent effects of male testosterone treatment on pair-maintenance behavior in zebra finches. *Animal Behaviour.* 114, 155-164. (2016). [Impact Factor: 2.445, Citations: 8]

2. N. H. Prior, **KN. Yap**, H. H. Adomat, M. C. Mainwaring, H. B. Fokidis, E. S. Guns, K. L. Buchanan, S. C. Griffith, and K. K. Soma. Sex steroid profiles and pair-maintenance behavior of wild-caught zebra finches (*Taenopygia guttata). Journal of Comparative Physiology A,* 202, 35-44. (2016). [Impact Factor: 1.882, Citations: 9]

1. N. H. Prior, **KN. Yap**, and K. K. Soma. Acute and chronic effects of an aromatase inhibitor on pair-maintenance behavior of water-restricted zebra finch pairs. *General and comparative endocrinology*, 196, 62-71. (2014). [Impact Factor: 2.675, Citations: 14]

**Grants and Funding:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Year** | **Source** | **Title** | **Amount** | **Role** | **Status** |
| 2021 | National Science Foundation | Metabolic adaptations for hypoxia are beneficial for long-lived Naked and Damaraland Mole-Rat | TBD | Collaborator(Contributed to project design, collected preliminary data) | Pending |
| 2021 | Leverhulme Trust Fund | Keeping slim despite access to limitless tasty food- how do birds do it? | 56,445 GBP | Collaborator(Contributed to project design, collected preliminary data) | Not funded |
| 2019 | National Science Foundation EPSCoR pilot grant | Individual variation in cellular unfolded protein response, respiratory capacity, and stress tolerance in deer mice (*Peromyscus maniculatus*) | 10,000 USD | Investigator(Designed projects, wrote proposal, collected all data) | Funded |
| 2019 | Presidential Awards for Interdisciplinary Research | A Mobile Mitochondria Laboratory (AU MitoMobile) to Lead the World in Measuring Bioenergetics in Natural Settings | 636,941 USD | Collaborator(Contributed to project design and data collection) | Funded |
| 2019 | SFU Open Access Fund | Haematological traits co-vary with migratory status, altitude and energyexpenditure: a phylogenetic, comparative analysis | 2500 CAD | Investigator(Designed projects, wrote proposal, collected all data) | Funded |
| 2018 | SFU Spring Graduate Fellowship (6500 CAD) | NA | 6500 CAD |  | Funded |
| 2017 | SFU Spring Graduate Fellowship (6500 CAD) | NA | 6500 CAD |  | Funded |
| 2015 | SFU Fall Graduate Fellowship (6500 CAD) | NA | 6500 CAD |  | Funded |
| 2014 | SFU Fall Graduate Fellowship (6250 CAD) | NA | 6250 CAD |  | Funded |
| 2014 | SFU GSS Professional Development Grant (500 CAD) | NA | 500 CAD |  | Funded |

**Awards and Honours:**

2018 Society of Experimental Biology Travel Award

2018 SFU Travel and Minor Research Award

2017 Society of Experimental Biology Travel Award

2017 SFU Travel and Minor Research Award

2017 Charlotte Mangum Student Support Award, Society for Integrative and Comparative Biology

2016 SFU Department of Biological Sciences Teaching Award

2016 Canadian Society of Zoologists George F. Holeton Award finalist

2016 Canadian Society of Zoologists Travel Award

2016 SFU Travel and Minor Research Award

2016 Charlotte Mangum Student Support Award, Society for Integrative and Comparative Biology

2016 SFU Graduate International Travel Award

2016 Charlotte Mangum Student Support Award, Society for Integrative and Comparative Biology

2015 Charlotte Mangum Student Support Award, Society for Integrative and Comparative Biology

2013 UBC Quinn Undergraduate Travel Award

2012 UBC Go Global Travel Award

2011 UBC Go Global Travel Award

2009 UBC President Entrance Scholarship

**Oral Presentations:**

2021 **KN. Yap\***, K.Y.H. Yamada, S.L. Zikeli, Y. Zhang, Y. Zhang, A.N. Kavazis, L.B. Gladden, M.D. Roberts, H. Kiaris, W.R. Hood. Individual variation in cellular unfolded protein response, respiratory capacity, and stress tolerance in deer mice (*Peromyscus maniculatus*). Rank Prize Fund Symposium, Grasmere, UK. *Postponed due to COVID-19.*

***Invited Symposium (Variation in metabolic rate- where does it come from and does it matter?)***

2021 **KN. Yap**, Y. Zhang\*. Revisiting the question of nucleated versus enucleated erythrocytes: A bird mammal comparison. Society for Integrative and Comparative Biology Annual Meeting, Virtual.

2021 Y. Zhang, **KN. Yap**, K.T. David, D.L. Swanson\*. Does the high-energy aerial insectivore lifestyle of swallows produce thermogenic side effects? Society for Integrative and Comparative Biology Annual Meeting, Virtual.

2021 **KN. Yap\***, K.Y.H. Yamada, S.L. Zikeli, Y. Zhang, Y. Zhang, A.N. Kavazis, L.B. Gladden, M.D. Roberts, H. Kiaris, W.R. Hood. Individual variation in cellular unfolded protein response, respiratory capacity, and stress tolerance in deer mice (*Peromyscus maniculatus*). Society for Integrative and Comparative Biology Annual Meeting, Virtual.

2021 R.L. Klabacka\*, H.A. Parry, **KN. Yap**, R.A. Cook, T.A. Heron, L.M. Horne, J.A. Maldonado, J.R. Oaks, A.N. Kavazis, M.K. Fujita, T.S. Schwartz. Reduced endurance and mitochondrial respiration in hybrid asexual lizards (genus: *Aspidoscelis*). Society for Integrative and Comparative Biology Annual Meeting, Virtual.

2020 R. Klabacka\*, H. Parry, **KN. Yap**, R. Cook, T. Herron, M. Horne, J. Maldonado, G. Álvarez, A.N. Kavazis, J. Oaks, M. Fujita, J. Johnson, T. Schwartz. The powerhouse of asexual decline? Endurance and mitochondrial efficiency in parthenogenetic whiptail lizards (genus: *Aspidoscelis*). World Congress of Herpetology, Dunedin, New Zealand.

2020 L. Krider, L. Halsey, **KN. Yap**, T.D. Williams\*. Humans Get Fat on Fat Diets, Why Don’t Birds? Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas. USA.

2020 S. Zikeli\*, K. Yamada, **KN. Yap**, Y. Zhang, H. Kiaris, W.R. Hood. Shy and Stressed? Correlations Between Corticosterone Level, Unfolded Protein Response, and Animal Personality. Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas. USA.

2020 V. Andreasen\*, **KN. Yap,** A.S. Williams, K.Y. Yamada, S. Zikeli, A.N. Kavazis, W.R. Hood. The impact of maternal corticosterone on offspring morphology and mitochondrial physiology. Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas. USA.

2019 **KN. Yap\*,** V. Andreasen, A.S. Williams, K.Y. Yamada, S. Zikeli, A.N. Kavazis, W.R. Hood. Impact of elevated corticosterone during lactation on offspring morphology and mitochondrial physiology. International Congress of Comparative Physiology and Biochemistry, Ottawa, Canada.

 ***Invited Symposium (Preparation for oxidative stress: Evolution, ecophysiology and molecular mechanisms).***

2018 **KN. Yap\*,** D.R. Powers, O. Tsai, M. Vermette, T.D. Williams. Do physiological adjustments to high foraging effort affect reproduction? Society for Integrative and Comparative Biology Annual Meeting, San Francisco, California. USA.

2017 **KN. Yap\*,** O. Tsai, T.D. Williams. Phylogenetic comparative analysis of the relationship between haematology, life-history variables and energy metabolism in birds. Society for Experimental Biology Annual Meeting. Gothenburg, Sweden. ***Invited Symposium (The obligation of activity - how do animals get fit and what takes them over the hill?).***

2017 **KN. Yap\***, M.F. Dick, C.G. Guglielmo, T.D. Williams. Effects of experimental manipulation of haematocrit on flight performance. Society for Integrative and Comparative Biology Annual Meeting, New Orleans, Louisiana. USA.

2017 **KN. Yap\*,** M. W. Serota, T.D. Williams. The physiology of exercise in free-living animals: what can we learn from current model systems? Society for Integrative and Comparative Biology Annual Meeting, New Orleans, Louisiana. USA.

 ***Invited Symposium (The Ecology of Exercise: Mechanisms Underlying Individual Variation in Movement Behavior, Activity or Performance). Featured in Science (AAAS) magazine: http://science.sciencemag.org/content/355/6321/121.full***

2016 N. H. Prior\*, **KN. Yap**, T. D. Q. Liu, C. Vignal, and K. K. Soma. Context- and behavior -dependent effects of male testosterone treatment on long-term pair maintenance behavior in zebra finches. North American Ornithological Conference, Washington DC, USA.

2016 **KN. Yap\*,** K. C. Harris, O. Kim, and T. D. Williams. Individual variation in physiological effects of training for increased foraging effort. Society for Integrative and Comparative Biology Annual Meeting, Portland, Oregon. USA.

2015 **KN. Yap\*,** T. D. Williams. Effects of increased foraging cost on hematology and basal metabolic rate in zebra finches, *Taeniopygia guttata.* Society for Integrative and Comparative Biology Annual Meeting, West Palm Beach, Florida. USA.

2014 **KN. Yap\*** and T. D. Williams.Effects of increased foraging cost on hematology in zebra finches, *Taeniopygia guttata.* Ecology and Evolution Retreat, Brackendale, British Columbia. Canada.

2014 N. H. Prior, **KN. Yap**, E.S. Guns, K. L. Buchanan, C. Vignal, S. C. Griffith, and K. K. Soma\*. Steroids and pair maintenance behavior in monogamous zebra finches. Society for Behavioral Neuroendocrinology/ International Congress of Neuroendocrinology Annual Meeting, Sydney. Australia.

2012N.H. Prior\*, S. A. Heimovics, **KN. Yap**, and K. K. Soma. Neuroendocrinology of pair-maintenance behavior in a social songbird, the zebra finch. North American Ornithological Conference, Vancouver, British Columbia. Canada.

**Poster Presentations:**

2021 D.H. Gomez\*, M. Aldokhayyil, **KN. Yap**, M.N. Rumbley, A.N. Kavazis, M.D. Brown, A.T. Robinson. Mitochondrial respiration and redox protein expression in peripheral blood mononuclear cells from Non-Hispanic Black and White Males. Experimental Biology, Virtual.

2021 K.Y.H. Yamada\*, **KN. Yap**, S.L. Zikeli, W.R. Hood. Comparison of the metabolic and physical performance of white-footed mice in laboratory, semi-natural, and wild populations environments. American Society of Mammalogists Annual Meeting, Virtual.

2021 **KN. Yap\***, H.S. Wong, C. Ramanathan, C.A. Rodriguez-Wagner, D.A. Freeman, Y. Zhang. Rate of living theory re-visited: mitochondrial, cellular, and whole-organism metabolism in Siberian hamster and the long-lived Damaraland mole rat. Society for Integrative and Comparative Biology Annual Meeting, Virtual.

2020 H.A. Parry\*; **KN. Yap**, L.B. Gladden, G.E. Hill, W.R. Hood, A.N. Kavazis. MitoMobile Validation: Taking a Molecular Physiology Lab to the Field. Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas. USA.

2020 K.Y.H. Yamada\*, S.L. Zikeli, **KN. Yap**, Y. Zhang, H. Kiaris, A.N. Kavazis, W.R. Hood. The relationship between the unfolded protein response and mitochondrial performance in deer mice maintained in a natural context. Society for Integrative and Comparative Biology Annual Meeting, Austin, Texas. USA.

2018 **KN. Yap\*,** D.R. Powers, O. Tsai, M. Vermette, T.D. Williams. Do physiological adjustments to high foraging effort affect reproduction? International Ornithological Congress, Vancouver, British Columbia. Canada.

2018 O. Tsai\* (*undergraduate author*), **KN. Yap**, T.D. Williams. Birds and mammals differ in the effect of dietary nitrate on hemoglobin and hematocrit. Society for Integrative and Comparative Biology Annual Meeting, San Francisco, California. USA.

2016 **KN. Yap\*,** K. C. Harris, O. Kim, and T. D. Williams. Physiological costs of training for increased foraging effort. Canadian Society of Zoologists Conference, London, Ontario. Canada.

 *(George F. Holeton Award finalist)*

2016 O. Kim\* (*undergraduate author*), **KN. Yap**, and T. D. Williams. Validation of the use of erythropoietin and anti-erythropoietin for experimental manipulation of hematocrit and hemoglobin in zebra finches, *Taeniopygia guttata*. Society for Integrative and Comparative Biology Annual Meeting, Portland, Oregon. USA.

2015 N. H. Prior\*, **KN. Yap**, M. C. Mainwaring, H. H. Adomat, L. McCowan, E. S. Guns, K. L. Buchanan, C. Vignal, S. C. Griffith, & K. K. Soma. Do steroid profiles predict pair synchrony or reproductive success in wild zebra finches? Gordon Seminar Neuroethology: Behavior, Evolution & Neurobiology. Barga-Luccca, Italy.

2015 N. H. Prior\*, **KN. Yap**, M. C. Mainwaring, H. H. Adomat, O. L. Crino, C. Ma, E. S. Guns, S. C. Griffith, K. L. Buchanan, & K. K. Soma. Effects of domestication and breeding cycle on steroid profiles of zebra finches. Gordon Seminar Neuroethology: Behavior, Evolution & Neurobiology. Barga-Luccca, Italy.

2013 N. H. Prior\*, **KN. Yap**, and K. K. Soma. Acute and chronic effects of an aromatase inhibitor on pair-maintenance behaviour of water-restricted zebra finch pairs. Society for Behavioral Neuroendocrinology Meeting, Atlanta, Georgia. USA.

2013 N. H. Prior\*, **KN. Yap**, H. B. Fokidis, M. C. Mainwaring, E.S. Guns, K. L. Buchanan, S. C. Griffith, and K. K. Soma. Behavioral and Endocrine Synchrony in Wild-Caught Zebra Finch Pairs. Animal Behaviour Society Annual Meeting, Boulder, Colorado. USA.

2013 **KN. Yap\*,** N.H. Prior, and K. K. Soma**.** Effects of water restriction on courtship behaviour in zebra finches. Pacific Ecology and Evolution Conference, Bamfield, British Columbia. Canada.

2013 **KN. Yap\*** and T. D. Williams. Workload and Hematology: Effects of Training and Exercise Intensity on Oxygen Consumption and Hematological Status. Ecology and Evolution Retreat, Brackendale, British Columbia. Canada.

**Ad Hoc Journal Review**

*Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy*

*Journal of Animal Ecology*

*American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*

*Journal of Applied Physiology*

*Scientific Reports*

*Journal of Experimental Biology*

*Integrative and Comparative Biology*

*Medicine & Science in Sports & Exercise*

*Journal of Comparative Physiology B*

*SFU Science Undergraduate Research Journal*

**External Grant Review**

2019 Leverhulme Trust Fund

**Invited Talks:**

2020 Auburn University Science Café: Mitochondria: the powerhouses of life

2020 SCHS Seminar Series, Tawau, Malaysia: Life of a Comparative Biologist.

2018 SFU Natural History Talk: North Borneo: A Biologist’s Paradise.

2018 SFU Les Ecologistes Seminar Series: Blood matters: What can hematological traits tell us about life-history and performance?

2016 SFU Les Ecologistes Seminar Series: Will Work for Food: Physiological Response of Increased Foraging Effort.

2013 SCHS Seminar Series, Tawau, Malaysia: Hormones and their effects on health.

**Guest Lectures:**

2017 SFU BISC 305 (Animal Physiology) lecture: Reproductive physiology

2017 SFU BISC 455 (Endocrinology) guest lecture: Hormonal basis of pair bonding.

2015 SFU BISC 316 (Vertebrate Biology) guest lecture: Avian Reproduction.

2015 SFU BISC 316 (Vertebrate Biology) lecture: Life in water: swimming.

2015 SFU BISC 316 (Vertebrate Biology) lecture: Introduction.

2015 SFU BISC 455 (Endocrinology) guest lecture: Hormonal basis of pair bonding.

**Research Experience:**

2019-present Dr. Wendy R. Hood. Department of Biological Sciences, Auburn University

2013–2018 Dr. Tony D. Williams. Department of Biological Sciences, Simon Fraser University

2015-2016 Dr. Christopher G. Guglielmo. Advanced Facility for Avian Research, Western University

2012 Fowler’s Gap Arid Zone Research Station. University of New South Wales (Under the direction of Dr. Simon C. Griffith and Dr. Kate L. Buchanan)

2010–2013 Dr. Kiran K. Soma. Department of Psychology and Zoology, University of British Columbia

**Research skills:**

Steroid hormone extraction

Radioimmunoassay

Dissections, blood-sampling, and non-lethal surgery

Enzyme-linked immunoassay

Mitochondria isolation

Mitochondrial and cell respirometry

Whole-animal respirometry

Primary cell isolation

Cell culture

Drug screening

Western blot

Field techniques (e.g. mist-netting, animal trapping, field behavioural observations, etc.)

**Research collaborations:**

Dr. Hippokratis Kiaris (University of South Carolina)

Dr. Donald R. Powers (George Fox University)

Dr. Christopher G. Guglielmo (AFAR, University of Western Ontario)

Dr. David L. Swanson (University of South Dakota)

Dr. Yufeng Zhang (University of Memphis)

Dr. Lewis G. Halsey (Roehamption University)

**Teaching Experience:**

2018 BISC 305: Animal Physiology. Teaching Assistant. Simon Fraser University.

2017 BISC 305: Animal Physiology. Teaching Assistant. Simon Fraser University.

2017 TA/TM Day Workshop: Encouraging Active Learning in the Laboratory. Facilitator/co-designer. Simon Fraser University.

2017 Annual Symposium on Teaching and Learning. Simon Fraser University.

2016 BISC 100: Introduction to Biology. Teaching Assistant. Simon Fraser University.

2016 BISC 112: Sexual reproduction on Earth. Teaching Assistant. Simon Fraser University.

 *Designed tutorial activities for a new course.*

2016 TA/TM Day Workshop: Encouraging Active Learning in the Laboratory. Co-facilitator/designer. Simon Fraser University.

2016 TA/TM Day Workshop: Encouraging Active Learning in the Laboratory. Co-facilitator/designer. Simon Fraser University.

 **Featured in SFU Teaching and Learning Centre Blog: https://www.sfu.ca/tlc/blog/a-teaching-assistants-experience-at-tatm-day.html**

2015 TA/TM Day Workshop: Encouraging Active Learning in the Laboratory. Co-facilitator/designer. Simon Fraser University.

2015 BISC 316: Vertebrate Biology. Teaching Assistant. Simon Fraser University.

2015 BISC 455: Endocrinology. Teaching Assistant. Simon Fraser University.

2014 BISC 101: General Biology (cell and molecular biology, animal and plant physiology). Teaching Assistant. Simon Fraser University.

**Teaching Certificates:**

2016 Instructional Skills workshop. Simon Fraser University.

2016 Advancing Learning through Evidence-Based STEM Teaching.

2013 International Teaching Assistant seminar certificate. Simon Fraser University.

**Professional Memberships:**

2017-present Society of Experimental Biology (SEB)

2016-present Canadian Society of Zoologists (CSZ)

2013-present Society for Integrative and Comparative Biology (SICB)

2018-2019 International Ornithologists’ Union (IOU)

2015-2016 The American Ornithologists’ Union (AOU)

2013-2014 Animal Behaviour Society (ABS)

**Outreach and Service:**

2020-2021 President of Auburn University Post-doctoral Association

2019 Auburn University Post-doctoral Association leadership group

2019 Alabama Boy Scouts mammal badge program

2018 Biology tutor for Native Education College's Aboriginal Adult Basic Education program (enables adult students to complete high school)

2017-2018 SFU Senate Policy Committee on Scholarships, Awards and Bursaries (SPCSAB)

2017-2018 SFU Senate Graduate Awards Adjudication Committee (SGAAC)

2015-2018 SFU Graduate Student Society Grant Allocation Committee

2015-2016 Les Ecologistes Weekly Seminar Co-organizer, Simon Fraser University

2014-2018 Greater Vancouver Regional Science Fair Judge

2014 SFU STEPS Program: Worked with program coordinator to guide a student with developmental disability and help integrate him into a first year biology class

2011 UBC TREK Program community service learning program at Lord Beaconsfield Elementary School in East Vancouver

1. UBC Gala orientation group leader

2010 BizKit member: Designing business and commerce based courses for elementary school students and teaching business’s basic concepts and running class activities

**Membership in Community Organizations**

2017-2018 SFU Malaysian Singaporean Club

2010-present Golden Key International Honour Society

2010-2013 UBC Psychology Student Association

**Undergraduate students mentored**

*NSERC USRA undergraduate research assistant*

2016-2018 Olivia Tsai (***Co-author on conference presentation and research article***)

2016 Alexander Macmillan

*Undergraduate research assistant*

2020-present Lindsay Guy

2019-2020 Jun Bum Chang

2015-2016 Oh Run Kim (***Co-author on conference presentation and research article****)*

2014-2016 Karilyn Harris (***Co-author on conference presentation and research article****)*

2014-2015 Alden Leung

*Work study students*

2018 Natali Pflum-Jaeger

2017-2018 Melissa Vermette (***Co-author on conference presentation and research article***)

2017 Shivam Bhardwaj

2016-2017 Sarosha Ali

2016 Jessica Halverson

2015-2016 Sumaira Hussain

2016 Luke Yang

2015 James Wheelwright

2015 Divine Wekwa

2014-2015 Ayush Joshi

2014 Mia Nguyen

2014 Tina Hua

**References:**

Dr. Tony D. Williams, email: tdwillia@sfu.ca

Dr. Wendy R. Hood, email: wrh0001@auburn.edu

Dr. Yufeng Zhang, email: yzhang24@memphis.edu

Prof. Joan Sharp, email: jsharp@sfu.ca