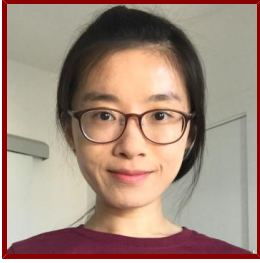


# Stanford

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## Meng (Gemma) Zhao

Postdoctoral Scholar, Pathology

### Bio

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#### BIO

Dr. Zhao received her B.S. in Life Science from Beijing Normal University in China. She completed her Ph.D. in Evolution, Ecology, and Organismal Biology at University of California, Riverside in the laboratory of Wendy Saltzman in 2018. Following her Ph.D., she moved to Stanford for her postdoctoral work in the lab of Katrin J Svensson, studying endocrinology in mammalian energy metabolism.

#### HONORS AND AWARDS

- Best Poster Award, Annual Frontiers in Diabetes Research Symposium, Stanford (2022)
- Postdoctoral Fellowship, American Heart Association (AHA) (2022)
- Best Poster Award, Pathology Basic Research Retreat, Stanford (2021)
- Charlotte Mangum Student Support, the Society for Integrative and Comparative Biology (2018)
- Dissertation Year Program Fellowship, Graduate Division, UC Riverside (2018)
- GradFest Best Student Talk, Department of Biology, UC Riverside (2018)
- Vaughan H. Shoemaker Graduate Fellowship, Department of Evolution, Ecology, and Organismal Biology, UC Riverside (2017)
- Dean's Distinguished Fellowship Award, Department of Biology, UC Riverside (2013)

#### PROFESSIONAL EDUCATION

- Bachelor of Science, Beijing Normal University (2013)
- Doctor of Philosophy, University of California Riverside (2018)

#### STANFORD ADVISORS

- Katrin Svensson, Postdoctoral Faculty Sponsor

### Publications

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#### PUBLICATIONS

- **Protocol for *in vivo* measurement of basal and insulin-stimulated glucose uptake in mouse tissues.** *STAR protocols*  
Zhao, M., Wat, L. W., Svensson, K. J.  
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- **Mapping transcriptional heterogeneity and metabolic networks in fatty livers at single-cell resolution.** *iScience*  
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- **Phosphoproteomic mapping reveals distinct signaling actions and activation of muscle protein synthesis by Isthmin-1.** *eLife*  
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- **G protein-coupled receptor 151 regulates glucose metabolism and hepatic gluconeogenesis** *Nature Communications*  
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- **Effects of early-life exposure to Western diet and voluntary exercise on adult activity levels, exercise physiology, and associated traits in selectively bred High Runner mice** *PHYSIOLOGY & BEHAVIOR*  
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- **Isthmin-1 is an adipokine that promotes glucose uptake and improves glucose tolerance and hepatic steatosis.** *Cell metabolism*  
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2021
- **Isolation, culture, and functional analysis of hepatocytes from mice with fatty liver disease.** *STAR protocols*  
Jung, Y., Zhao, M., Svensson, K. J.  
2020; 1 (3): 100222
- **Effects of sex and age on parental motivation in adult virgin California mice** *BEHAVIOURAL PROCESSES*  
Nguyen, C. Y., Zhao, M., Saltzman, W.  
2020; 178: 104185
- **Long-Term Effects of Fatherhood on Morphology, Energetics, and Exercise Performance in California Mice (*Peromyscus californicus*)** *PHYSIOLOGICAL AND BIOCHEMICAL ZOOLOGY*  
Andrew, J. R., Garland, T., Chappell, M. A., Zhao, M., Horrell, N. D., Saltzman, W.  
2020; 93 (1): 75–86
- **Regulation of Energy Metabolism by Receptor Tyrosine Kinase Ligands.** *Frontiers in physiology*  
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- **Effects of short- and long-term cold acclimation on morphology, physiology, and exercise performance of California mice (*Peromyscus californicus*): potential modulation by fatherhood** *JOURNAL OF COMPARATIVE PHYSIOLOGY B-BIOCHEMICAL SYSTEMS AND ENVIRONMENTAL PHYSIOLOGY*  
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- **Effects of single parenthood on mothers' behavior, morphology, and endocrine function in the biparental California mouse.** *Hormones and behavior*  
Zhao, M. n., Harris, B. N., Nguyen, C. T., Saltzman, W. n.  
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- **Behavioral and endocrine consequences of placentophagia in male California mice (*Peromyscus californicus*)** *PHYSIOLOGY & BEHAVIOR*  
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2018; 188: 283–90
- **Effects of a physical and energetic challenge on male California mice (*Peromyscus californicus*): modulation by reproductive condition** *JOURNAL OF EXPERIMENTAL BIOLOGY*  
Zhao, M., Garland, T., Chappell, M. A., Andrew, J. R., Harris, B. N., Saltzman, W.

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- **Metabolic and affective consequences of fatherhood in male California mice** *PHYSIOLOGY & BEHAVIOR*

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- **Hormones and the Evolution of Complex Traits: Insights from Artificial Selection on Behavior** *INTEGRATIVE AND COMPARATIVE BIOLOGY*

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