

# Boya Yang

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## Education

**Ph.D. Candidate**, Applied Mathematics, University of Florida, 2018-2023

Advisor: Prof. Libin Rong

Visiting Student (Fall 2022), National Institute of Diabetes and Digestive and Kidney Diseases, National Institute of Health, US. Advisor: Arthur Sherman

**B.S.**, Mathematical Statistics, Luoyang Normal University, Luoyang, China, 2010-2014

## Employment

Math Teacher, Luoyang Dongfang No. 2 Middle School, and Luoyang No. 48 Middle School, China, 2015-2018

## Research interests

Mathematical biology, especially endocrine diseases such as diabetes and thyroid dysfunction

## Honors and awards

CAM Graduate Research Fellowship, University of Florida, 2022

Chat Yin Ho Award, University of Florida, 2021

UF Mathematics Graduate Student Teaching Award, University of Florida, 2020

Excellent Bachelor's Thesis Award, Luoyang Normal University, 2014

National Scholarship, Luoyang Normal University, 2013-2014

Luoyang Normal University Fellowship, First prize, 2012-2013

Provincial Prize in China Undergraduate Mathematical Contest in Modeling, Henan Province, 2012

## Teaching Experience

MAC 2233 Survey of Calculus

MAC 2311 Analytic Geometry and Calculus I

MAC 2312 Analytic Geometry and Calculus II

MAP 2303 Elementary Differential Equations

## Publications

**Yang B**, Li J, Haller MJ, Schatz DA, Rong L. (2022). The progression of secondary diabetes: A review of modeling studies, *Frontiers in Endocrinology*, 13:1070979.

**Yang B**, Li J, Haller MJ, Schatz DA, Rong L. Modeling the progression of type 2 diabetes with underlying obesity, in review under *PLoS of Computational Biology*.

**Yang, B.**, Tang, X., Haller, M. J., Schatz, D. A., & Rong, L. (2021). A unified mathematical model of thyroid hormone regulation and implication for personalized treatment of thyroid disorders. *Journal of Theoretical Biology*, 528, 110853.

## Academic Presentations

Poster presentation, A unified mathematical model of thyroid hormone regulation and implication for personalized treatment of thyroid disorders. Southeast Center for Mathematics and Biology 4<sup>th</sup> annual Symposium, Georgia Tech University, December 2021. Virtual.

Mathbio seminar talk, Thyroid hormone regulation: modeling and implications, Department of

Mathematics, University of Louisville, October 2021.

Mathbio seminar talk, Thyroid hormone regulation: modeling and implications, Department of Mathematics, University of Florida, August 2021.

Poster presentation, A unified mathematical model of thyroid hormone regulation and implication for personalized treatment of thyroid disorders, XVII Red Raider Mini-symposium, Texas Tech University, August 2021. Virtual.

### **Professional Activities**

**Reviewer**, Journal of Biological Dynamics, 2021