IBRAHIM HALIL ASLAN

120 Ocean view, Pacific Grove, CA, 93950

☎ (831) 220-5561 ✉ iaslan@stanford.edu https://www.linkedin.com/in/ibrahimhalilaslan/

EDUCATION

University of Tennessee, Knoxville, TN

- Ph.D. in Mathematics, Concentration in Mathematical Ecology/Evolution *Aug 2019*
- Ph.D. Minor in Statistics, Ph.D. Minor in Computational Science *Aug 2019*

Gaziantep University, Gaziantep, Turkey

- Master of Science in Applied Mathematics *July 2011*

Mersin University, Mersin, Turkey

- Bachelor of Science in Mathematics *June 2009*

WORK EXPERIENCES

- **Postdoctoral Scholar, Stanford University** ..... *Jan 2022-Present*
  Mathematical modeling of Schistosomiasis under future climate change.
- **Assistance Prof., Batman University, Turkey** ..... *Oct 2019-Jan 2022*
  Taught : Statistics, Calculus I - II, Differential Equations, Numerical Math.
- **Graduate Teaching Associate, University of Tennessee** ..... *Aug 2015-Aug 2019*
  Taught: Statistical Reasoning, Calculus I - II, Differential Equations, Basic Calculus.

PUBLICATION

- Aslan, I. H., Baca-Carrasco, D., Lenhart, S., Velasco-Hernandez, J. X., (2021). A mathematical model with impulse actions for Leptospirosis in cattle. *Journal of Biological systems*, 29(1), 1-31.
- Aslan, I. H., Lenhart, S., (2020). A mathematical model for cost-effectiveness analysis and early detection of Leptospirosis in human. *Journal of Abstract and Computational Mathematics*, 6(1), 21-31.
- Aslan, I. H., Demir, M., Wise, M. M., Lenhart, S., 2022. Modeling COVID-19: Forecasting and analyzing the dynamics of the outbreaks in Hubei and Turkey. *Mathematical Methods in the Applied Sciences*, 1-14.

CONFERENCES AND WORKSHOPS

- Academy of Science, Modeling Covid-19 Virtual Workshop, June 2020. Invited Session: Modeling COVID-19: Forecasting and analyzing the dynamics of the outbreak in Hubei and Turkey.
- SIAM Conference on Computational Science and Engineering, Spokane, WA, February 2019. Student chapter representative, Poster presenter: A cost effectiveness analysis in early detection of a zoonotic disease Leptospirosis.
- Joint Mathematics Meeting, Baltimore, MD, January 2019. Invited Session: Impulse model of Leptospirosis in Cattle.
- 38th Southeastern – Atlantic Regional Conference on Differential Equations, University of North Georgia-Gainesville, Oakwood, GA, October 2018. Session Chair and Contributed Talk: Impulse model of Leptospirosis in Cattle.

- SIAM Conference on the Life Sciences, Minneapolis, MN, August 2018. Invited minisymposium: Modeling of Leptospirosis in Cattle.
- NSF-CBMS: Computational Methods in Optimal Control, Jackson State University, Jackson, MS, July 2018, Funded participant.
- 37th Southeastern – Atlantic Regional Conference on Differential Equations, Kennesaw State University, Kennesaw, GA, October 2017. Session Chair and Contributed Talk: Vaccine Impulse Model of Leptospirosis in Cattle.
- Joint Mathematics Meeting, Atlanta, GA, January 2017.
- US-Canadian Institutes Epidemiology Summer School: Mathematical Modeling of Infectious Disease Spread, The Ohio State University, Columbus, OH, June 2016. Project: Mixing and Multi Group Models, Funded participant.
- Leptospirosis Modeling Working Group at National Institute for Mathematical and Biological Synthesis, University of Tennessee, Knoxville, 2015-2016.
- International Conference on Applied Analysis and Algebra, Yıldız Technical University, Istanbul, Turkey, July 2011.

COMPUTER SKILLS

Programing Languages ..... Python, R, MATLAB
Scripting Languages ..... HTML, LaTeX
Math Software ..... Mathematica, Maple, XPP/XPPAUT
Databases Software ..... MS SQL Server, MySQL, Teradata, Oracle, SPSS

AWARDS AND SCHOLARSHIPS

- Graduate Student Assistantships, University of Tennessee *2015-2019*
- Summer Research Assistantship, University of Tennessee *2018*
- Summer Research Assistantship, University of Tennessee *2015*
- Ph.D. Fellowship, Turkish Ministry of National Education *2014-2019*
- Graduate Student Fellowship, Council of Higher Education Turkey *2010-2011*
- Honor Undergraduate Reward, Mersin University *2009*
- Undergraduate Student Scholarship, Council of Higher Education Turkey *2005-2009*

SERVICE AND AFFILIATIONS

- President, University of Tennessee Turkish Student Association *2016-2019*
- Officer, Student chapter of Society for Industrial and Applied Mathematics *2017-2019*
- Member, Society for Industrial and Applied Mathematics *2014-2019*
- Member, American Mathematical Society *2016-2019*

REFERENCES

Prof. Giulio De Leo
Department of Biology
Stanford University
(831) 655-6202
deleo@stanford.edu

Prof. Suzanne Lenhart
Department of Mathematics
University of Tennessee
(865) 974-4270
lenhart@math.utk.edu