

Vasilis Tsilidis

Curriculum Vitae

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Education

- 2023– **Ph.D. in Mathematical Biology**, *University of Patras*, Patras, Greece
- 2019–2021 **M.Sc. in Applied Mathematics (with Distinction)**, *Hellenic Open University*, Patras, Greece
Thesis Title: [Mathematical Modelling of Immune Response in Breast Cancer](#)
- 2013–2018 **B.Sc. in Mathematics**, *National and Kapodistrian University of Athens*, Athens, Greece

Publications

- [1] Vasiliki Bitsouni, Nikolaos Gialelis, and **Vasilis Tsilidis**. Partial dependence of ultrasonically estimated fetal weight on biometric parameters. *Royal Society Open Science*, June 2025. doi:[10.1098/rsos.250172](https://doi.org/10.1098/rsos.250172).
- [2] Vasiliki Bitsouni, Nikolaos Gialelis, and **Vasilis Tsilidis**. A novel comparison framework for epidemiological strategies applied to age-based restrictions versus horizontal lockdowns. *Infectious Disease Modelling*, July 2024. doi:[10.1016/j.idm.2024.07.002](https://doi.org/10.1016/j.idm.2024.07.002).
- [3] Vasiliki Bitsouni, Nikolaos Gialelis, Ioannis G. Stratis, and **Vasilis Tsilidis**. From primary HPV infection to carcinoma in situ: A mathematical approach to cervical intraepithelial neoplasia. *Studies in Applied Mathematics*, May 2024. doi:[10.1111/sapm.12697](https://doi.org/10.1111/sapm.12697).
- [4] Vasiliki Bitsouni, Nikolaos Gialelis, and **Vasilis Tsilidis**. An age-structured SVEAIR epidemiological model. *Mathematical Methods in the Applied Sciences*, May 2024. doi:[10.1002/mma.10165](https://doi.org/10.1002/mma.10165).
- [5] Vasiliki Bitsouni, Nikolaos Gialelis, and **Vasilis Tsilidis**. A mathematical study of the role of tbregs in breast cancer. *Bulletin of Mathematical Biology*, October 2022. doi:[10.1007/s11538-022-01054-y](https://doi.org/10.1007/s11538-022-01054-y).
- [6] Vasiliki Bitsouni and **Vasilis Tsilidis**. Mathematical modeling of tumor-immune system interactions: the effect of rituximab on breast cancer immune response. *Journal of Theoretical Biology*, April 2022. doi:[10.1016/j.jtbi.2021.111001](https://doi.org/10.1016/j.jtbi.2021.111001).

Talks

- 13/7/2025– **Unveiling the drivers of fetal weight estimation: Which ultrasound measurements matter most?**, *Society for Mathematical Biology Annual Meeting - 2025*, University of Alberta, Edmonton, Canada
18/7/2025

- 22/7/2024– **Can age-based restrictions replace horizontal lockdowns?**, *13th European Conference on Mathematical and Theoretical Biology*, University of Castilla–La Mancha, Toledo, Spain
- 26/7/2024
- 29/8/2022– **Mathematical modeling of immune response in breast cancer: the effect of tBregs and rituximab**, *Mathematical Biology on the Mediterranean Coast, 3rd Edition*, FORTH Institute, Heraklion, Greece
- 6/9/2022
- 26/2/2022– **Mathematical models of immune response in cancer**, *Research Directions and Perspectives in Mathematics, 4th Edition*, Hellenic Open University, Online Conference
- 27/2/2022

Participation in Conferences, Workshops, Schools

- 4/7/2023– **Partial Differential Equations in Applied Mathematics: a hybrid conference in honour of Ioannis Stratis**, *National and Kapodistrian University of Athens*, Athens, Greece
- 5/7/2023
- 19/7/2021– **Multi-Scale Modeling for Pattern Formation in Biological Systems**, *Institut Mittag-Leffler*, Online Summer School
- 23/7/2021
- 25/5/2021– **Mathematical Biology on the Mediterranean Coast**, *Online Conference*
- 27/5/2021
- 1/7/2019– **NCSR Demokritos 54th Summer School**, *NCSR Demokritos*, Athens, Greece
- 11/7/2019

Work Experience

- 14/4/2022– **Master Sergeant**, *Administration Company of the Presidential Guard*, Athens, Greece
- 13/3/2023
- Managed a company of 80 members, by determining the daily duties of its soldiers.
- 2019–2022 **Tutor for high school and undergraduate students**, *Athens, Greece*

Languages

English Fluent
Greek Native

Computer skills

- Certificate in Computer Science, Department of Mathematics, NKUA
- *Operating systems*: Windows, Linux
- *Programming Languages*: Java, Julia, Matlab, Python, R, SQL, Wolfram Language
- *Computer Software*: MS Access, MS Excel, Inkscape, Photoshop