Candan **Çelik**

✉ celikcandan@gmail.com | ☎ +90 538 749 8748 | ⌂ | 𝄞 | in | Ⓘ | Rᴳ | ⓞ

Education

Comenius University   *Bratislava, Slovakia*
Pʜ.D., **Aᴘᴘʟɪᴇᴅ Mᴀᴛʜᴇᴍᴀᴛɪᴄs**   *Sep 2018 – Jun 2022*
- Thesis: ⚭ *Multivariate Markovian models of biological processes*
- Advisor: ⚭ Pavol Bokes
- Defended on: 13 June 2022

Ege University   *Izmir, Turkey*
M.Sᴄ., **Aᴘᴘʟɪᴇᴅ Mᴀᴛʜᴇᴍᴀᴛɪᴄs**   *Feb 2014 – Nov 2017*
- Thesis: *Multidimensional Population Balance Modelling*
- GPA: 3.79/4.0

Ege University   *Izmir, Turkey*
B.Sᴄ., **Mᴀᴛʜᴇᴍᴀᴛɪᴄs**   *Sep 2009 – Jul 2013*
- GPA: 3.13/4.0 (Honours degree)
- Majored in Applied Mathematics

Experience

Institute For Basic Science   *Daejeon, South Korea*
Pᴏsᴛᴅᴏᴄᴛᴏʀᴀʟ Rᴇsᴇᴀʀᴄʜ Fᴇʟʟᴏᴡ   *Nov 2022 – May 2023*
- I worked as a postdoctoral research fellow in the Biomedical Mathematics Group (BIMAG).

Comenius Univeristy   *Bratislava, Slovakia*
Gʀᴀᴅᴜᴀᴛᴇ Tᴇᴀᴄʜɪɴɢ Assɪsᴛᴀɴᴛ   *Sep 2018 – Jun 2022*
- I taught exercise courses for Master's students.

Publications

Jᴏᴜʀɴᴀʟ ᴀʀᴛɪᴄʟᴇs

1. **Çelik C.**, Bokes P., Singh A. (2023) ⚭ "Translation regulation by RNA stem-loops can reduce gene expression noise" (under review), *BMC Bioinformatics*.

Pᴇᴇʀ-ʀᴇᴠɪᴇᴡᴇᴅ Cᴏɴꜰᴇʀᴇɴᴄᴇ Pʀᴏᴄᴇᴇᴅɪɴɢs

2. **Çelik C.**, Bokes P., Singh A. (2021) ⚭ "Protein Noise and Distribution in a Two-Stage Gene-Expression Model Extended by an mRNA Inactivation Loop." In: Cinquemani, E., Paulevé, L. (eds) *Computational Methods in Systems Biology*. CMSB 2021. Lecture Notes in Computer Science, vol 12881. Springer, Cham.

1. **Çelik C.**, Bokes P., Singh A. (2020) ⚭ "Stationary Distributions and Metastable Behaviour for Self-regulating Proteins with General Lifetime Distributions." In: Abate, A., Petrov, T., Wolf, V. (eds) *Computational Methods in Systems Biology*. CMSB 2020. Lecture Notes in Computer Science, vol 12314. Springer, Cham.

Awards

2021	**Grant for doctoral students**, ⚭ No. UK/100/2021, Comenius University	*€1000*
2020	**Grant for doctoral students**, ⚭ No. UK/106/2020, Comenius University	*€1000*
2019	**Grant for doctoral students**, ⚭ No. UK/201/2019, Comenius University	*€1000*
2018	**Ph.D. Scholarship (4 years)**, Comenius University	
2016	**Grant by Scientific Research Projects Coordination**, No. 16-FEN-058, Ege University	

Service

Tool Evaluation Committee Member, ⚷ The 21st Int. Conference on Computational Methods in Systems Biology	2023
Tool Evaluation Committee Member, ⚷ The 20th Int. Conference on Computational Methods in Systems Biology	2022
Tool Evaluation Committee Member, ⚷ The 19th Int. Conference on Computational Methods in Systems Biology	2021

Scientific activities attended

Workshop on Non-equilibrium Phenomena in Physics and Biology ⚷, (Poster) Presenter, Gyeongju, South Korea	Dec 2022
Seminar (Online) ⚷, Speaker, Canakkale Onsekiz Mart University, Canakkale, Turkey	Nov 2021
Department Seminar ⚷, Speaker, Comenius University	Oct 2021
Invited Speaker ⚷, Sybila, Masaryk University, Brno, Czech Republic	Oct 2021
19th Conference on Computational Methods in Systems Biology ⚷, Speaker, INRIA, Bordeaux, France	Sep 2021
Seminar (Online) ⚷, Speaker, Istanbul Medeniyet University, Istanbul, Turkey	Dec 2020
18th Conference on Computational Methods in Systems Biology ⚷, Speaker, Konstanz, Germany	Sep 2020
Department Seminar ⚷, Speaker, Comenius University	Nov 2019
Summer School Seminar ⚷, Speaker, Turin, Italy	Jun 2019
Summer School on Chemical reaction network theory ⚷, Attendee, Turin, Italy	Jun 2019
Seminar ⚷, Speaker, Ege University, Izmir, Turkey	Apr 2019
50th Conference of Slovak Mathematicians ⚷, Speaker, Slovakia	Nov 2018
3rd Int. Conference on Symmetries, Differential Equations and Applications ⚷, Speaker, Istanbul, Turkey	Aug 2017
2nd Workshop on Nonlinear PDEs in Applied Mathematics ⚷, Attendee, IZTECH, Izmir, Turkey	Aug 2016
International Conference on Applied Analysis and Mathematical Modelling ⚷, Speaker, Istanbul, Turkey	Jun 2015
Spring School for Discrete Dynamical Systems ⚷, Attendee, Izmir University of Economics, Izmir, Turkey	May 2014
1st National Calculus Workshop, Attendee, Ege University, Izmir, Turkey	Nov 2011

Skills

Languages: English (fluent), Turkish (native), Slovak (beginner), German (beginner).
Operating Systems: Linux, MS Windows.
Software: Python; Julia; LaTeX; MATLAB; MS Office.

References

⚷ **Pavol Bokes**, Associate Professor, Comenius University, Bratislava, Slovakia ✉ pavol.bokes@fmph.uniba.sk
⚷ **Abhyudai Singh**, Professor, University of Delaware, Newark, USA ✉ absingh@udel.edu
⚷ **Nikola Popovic**, Senior Lecturer, University of Edinburgh, Edinburgh, United Kingdom ✉ Nikola.Popovic@ed.ac.uk