



Nicoleta Siminea

Nationality: Romanian **Date of birth:** 27/05/1984

Place of birth: Bucharest, Romania **Gender:** Female

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Work: 296 Splaiul Independentei, 060031 Bucharest (Romania)

EDUCATION AND TRAINING

PhD - Computer Science

University of Bucharest [01/10/2019 – Current]

City: Bucharest | Country: Romania | Website: <https://fmi.unibuc.ro/scoli-doctorale/scoala-doctorala-de-informatica/>

Msc - Artificial Intelligence

University of Bucharest [01/10/2017 – 01/07/2019]

City: Bucharest | Country: Romania | Website: <https://fmi.unibuc.ro/>

Bsc - Informatics

"Titu Maiorescu" University [01/10/2014 – 01/06/2017]

City: Bucharest | Website: <https://www.utm.ro/facultatea-de-informatica/>

Bsc - Pharmacy

"Carol Davila" University [01/10/2003 – 01/09/2008]

City: Bucharest | Country: Romania | Website: <https://umfcd.ro/educatie/facultati-si-resurse/facultatea-de-farmacie/>

WORK EXPERIENCE

 **INCDSB** – Bucharest, Romania

Scientific researcher

[01/02/2023 – Current]

- analyzing experimental results
- implementing machine learning (ML) algorithms to make new discoveries
- creating and analyzing biological networks
- writing articles
- making presentations and posters
- explaining results at conferences

 **INCDSB** – Bucharest, Romania

Research assistant

[01/10/2019 – 01/02/2023]

 **HelpFarm, Dona, Farmaplus, RondFarm** – Bucharest, Romania

Pharmacist

[01/12/2006 – 01/06/2019]

- patient counseling
- pharmaceutical preparation
- pharmacy/pharmaceutical warehouse management
- I was the qualified person for drugs quality

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

French

LISTENING B1 READING B1 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

PUBLICATIONS

[2025]

[In silico enlightening of gliomas differences, with a special focus on secondary glioblastoma](#)

Authors: N. Siminea | Journal Name: Procedia Computer Science | Volume, Issue and Pages: 270, 2771-2780 | Publisher: Elsevier

Link: <https://doi.org/10.1016/j.procs.2025.09.399>

[2025]

[RADAR: Raman Spectral Analysis Using Deep Learning for Artifact Removal](#)

Authors: Joel Sjöberg, Nicoleta Siminea, Andrei Păun, Adrian Lita, Mioara Larion, Ion Petre | Journal Name: Advanced Optical Materials | Publisher: Wiley Online Library

Link: <https://doi.org/10.1002/adom.202500736>

[2024]

[Connecting the dots: Computational network analysis for disease insight and drug repurposing](#)

Authors: Nicoleta Siminea, Eugen Czeizler, Victor-Bogdan Popescu, Ion Petre, Andrei Păun | Journal Name: Current Opinion in Structural Biology | Volume, Issue and Pages: 88,102881 | Publisher: Elsevier

Link: <https://doi.org/10.1016/j.sbi.2024.102881>

[2024]

[Raman-based machine-learning platform reveals unique metabolic differences between IDHmut and IDHwt glioma}](#)

Authors: Adrian Lita , Joel Sjöberg , David Păcioianu , Nicoleta Siminea , Orieta Celiku , Tyrone Dowdy , Andrei Păun , Mark R Gilbert , Houtan Noushmehr , Ion Petre, Mioara Larion | Journal Name: Neuro-oncology | Volume, Issue and Pages: 26, 11, 1994--2009 | Publisher: Oxford University Press US

Link: <https://doi.org/10.1093/neuonc/noae101>

[2022]

[Network analytics for drug repurposing in COVID-19](#)

Authors: N. Siminea, V. Popescu, JA Sanchez Martin, D. Florea, G. Gavril, AM Gheorghe, C. Ițcuș, K. Kanhaiya, O. Pacioglu, LI. Popa, R. Trandafir , MI Tusa, M. Sidoroff, M. Păun, E. Czeizler, A. Păun, I. Petre | Journal Name: Briefings in Bioinformatics | Volume, Issue and Pages: 23,1 | Publisher: Oxford Academic

Link: <https://doi.org/10.1093/bib/bbab490>

CONFERENCES AND SEMINARS

[10/09/2025 – 12/09/2025] Osaka, Japan

KES2025 (presentation)

Link: <http://kes2025.kesinternational.org/>

[20/07/2025 – 24/07/2025] Liverpool, UK

ISMB/ECCB 2025 (presentation)

Link: <https://www.iscb.org/ismbeccb2025/home>

[02/04/2025 – 04/04/2025] Bucharest, Romania

Bioinformatics Horizons (poster)

Link: <https://rsbi.ro/evenimente/bioinformatics-horizons/>

[20/06/2024 – 20/06/2024] Bucharest, Romania

Biotech 2024 (poster)

[16/11/2023 – 17/11/2023] Bucharest, Romania

Conferința de Comunicare a Rezultatelor Cercetării la Universitatea din București (presentation)

Link: <https://unibuc.ro/a-doua-editie-a-conferintei-anuale-de-comunicare-a-rezultatelor-cercetarii-la-universitatea-din-bucuresti-prilej-pentru-consolidarea-unui-cadru-de-discutie-axat-pe-colaborare-interdisciplinara/>

[05/01/2022 – 06/01/2022] Tampere, Finland & online

Finnish Mathematical Days 2022 (presentation)

Link: <https://events.tuni.fi/mathdays2022/>

[25/07/2021 – 30/07/2021] virtual event

ISMB/ECCB 2021 (presentation & poster)

Link: <https://www.iscb.org/ismbeccb2021>

[25/05/2020 – 25/05/2020] virtual event

Workshop AlgoNano 2.0. (presentation)

Link: https://proiecte.incdsb.ro/MODASYS/Conf_MODASYS_2020.html

NETWORKS AND MEMBERSHIPS

[01/07/2021 – Current] USA

International Society for Computational Biology

PROJECTS

[01/07/2023 – Current]

team member - Machine learning for glioma tumor segmentation based on the methylation subtypes

[01/09/2020 – 01/06/2022]

team member - Personalized molecular networks in precision oncology