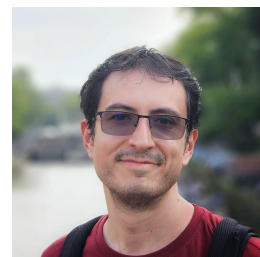


Adrian-Costin MANEA



I am an enthusiastic mathematician, passionate about science education and teaching. I hold a PhD. in Non-commutative Algebra, a MSc. in Logic Programming and Digital Security, as well as a BSc. in Theoretical Physics.

I love teaching and writing more than anything else and as such, I am always looking for open-minded collaborators and students so we can learn and grow together.

PERSONAL DATA

DATE AND PLACE OF BIRTH: March 3, 1989, Buzău, Romania

RESIDENCE: Bucharest, Romania

PERSONAL WEBSITE: <https://adrianmanea.xyz>

PROFESSIONAL EXPERIENCE

2022—present **Self Employed**

Teacher and manager at Poligon Educational

Private tutoring and teaching courses in mathematics and physics, with their applications, historical development, philosophical interpretations, and connections to other topics.

2017—present **Teaching Assistant**

Faculty of Applied Sciences, Department of Mathematical Methods and Models, Politehnica University, Bucharest

Courses and seminars at the Faculty of Automatic Controls and Computers, Electronics and Communications, Space Engineering, Applied Sciences: Algebra and Geometry, Real and Complex Analysis, Probability Theory, (Partial) Differential Equations, Field Theory, Cryptography and Codes, Python Programming and Data Visualization

2016—2017 **Research Assistant**

Mathematics Institute of the Romanian Academy

Project RU-TE-2014-4-0370 *Harmonic Analysis on Solvable Lie Groups*

Director CS2 Dr. Ingrid Beltiță

2013—2016 **Teaching Assistant**

Faculty of Mathematics and Computer Science, University of Bucharest

Undergraduate Algebra Seminars: Group Theory, Ring Theory, Arithmetic, Vector Spaces

2015 **Bitdefender Research Scholarship**

Scholarship awarded by the Mathematics Institute of the Romanian Academy

2011—2016 **Research Assistant**

Research Center in Algebra and Number Theory, University of Bucharest

IDEI 0635 Research Grant *Hopf Algebras in Category Theory, Representation theory and Combinatorics*, director Prof. Dr. Sorin Dăscălescu.

EDUCATION

- 2018–2020 **MSc. in Computer Science**
Security and Applied Logic, Faculty of Mathematics and Computer Science, University of Bucharest
Thesis: *Crafting Provers in Racket*
Advisor: Conf. Dr. Traian Șerbănuță
- 2013–2016 **PhD. in Mathematics**
Doctoral School of Mathematics, Faculty of Mathematics and Computer Science, University of Bucharest
Thesis: *Homological Methods in the Study of Algebras and Coalgebras*
Advisor: Prof. Dr. Dragoș Ștefan
I was awarded a POSDRU scholarship between June 2014–December 2015 and Doctoral School Scholarship for the rest of the period
- 2011–2013 **MSc. in Algebra**
Faculty of Mathematics and Computer Science, University of Bucharest
Thesis: *Homological Methods in the Study of Noncommutative Algebras*
Advisor: Prof. Dr. Dragoș Ștefan
- 2008–2011 **BSc. in Physics**
Computational Physics, taught in Englis, Faculty of Physics, University of Bucharest
Thesis: *Geometric Algebra and the Dirac Equation*
Advisor: Lect. Dr. Roxana Zus
- 2004–2008 **Baccalaureate**
National College B. P. Hasdeu, Buzău Mathematics and Computer Science.
Score: 99/100, July 2008

RESEARCH

- 2017 **On Koszulity of Finite Graded Posets**
J. Algebra Appl. 16, 1750139 (2017), 20 pages
Coauthor: Dragoș Ștefan
- 2016 **The Ext Ring of a Koszul Ring**
Bull. Math. Soc. Sci. Math. Roumanie, Tome 59 (107), No. 1, 2016, pp. 51-63
- 2016 **Further Properties and Applications of Koszul Pairs**
SIGMA 12 (2016), 092, 24 pagini
Coauthor: Dragoș Ștefan

PHILOSOPHY OF SCIENCE

- 2017 **The Technically Manifolded (Classical and Quantum) Space Ontology**
Society and Politics, Vol. 11, No. 1, 2017, pp. 91-93
- 2015–2016 **Conceptions of Space in the Scientific Revolution**
MPhil. Course by Prof. Dana Jalobeanu, Faculty of Philosophy, University of Bucharest
My Talk: *Differential Topology in the Leibniz-Clarke Correspondence*
- 2015–2016 **Ontology of Science**
Co-taught with Prof. Sorin Costreie and Dr. Alexandru Dragomir

FREELANCE WRITING

I have written for Romanian culture, technology and science magazines, covering popular science book reviews, history and philosophy of science, science education, AI and technology.

- Minecraft Stories,
- Dilema
- Dilema Veche (1, 2).

FOREIGN LANGUAGES

ENGLISH: Fluent.

FRENCH: Intermediate.

SPANISH: Intermediate.

VARIA

SOFTWARE (INTERMEDIATE)

Linux, macOS, Windows, vim, Emacs, git

PROGRAMMING (INTERMEDIATE)

C, C++, Bash, Python 3, ~~La~~TeX

SCIENTIFIC ADVISOR

Linked, Albert-László Barabási

Romanian translation, Brumar, Timișoara, 2017, 316 pages

Translator: Marius Cosmeanu

Last Updated: June 2025