


PERSONAL INFORMATION	MIRCEA-ALEXANDRU COMĂNESCU
	Panduri Street, No. 90-92, Bucharest, Romania
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	https://unibuc.ro/user/mircea.comanescu/ https://orcid.org/0000-0002-3075-436X https://www.webofscience.com/wos/author/record/JRX-1025-2023 https://scholar.google.com/citations?user=Cn-dVb0AAAAJ&hl=ro
	Sex M Date of birth 01/02/1990 Nationality Romania, United States of America

WORK EXPERIENCE

February 2024 - Current	Assistant Professor
	University of Bucharest, Panduri Street, No. 90-92, Bucharest, www.unibuc.ro
	Teaching and research Faculty of Chemistry, Department of Analytical and Physical Chemistry
August 2013 - December 2022	Adjunct Assistant Professor
	CUNY John Jay College, 524 W 59th St, New York, NY 10019, USA, https://www.jjay.cuny.edu/
	Teaching and research Department of Sciences
January 2022 - December 2022	Environmental Health and Safety Director
	CUNY John Jay College, 524 W 59th St, New York, NY 10019, USA, https://www.jjay.cuny.edu/
	Inspection, supervision and training Department of Public Safety
September 2018 - December 2021	Criminalist
	New York City Police Department, 1 Police Plaza Path, New York, NY 10038, USA
	Analysis and reporting on evidence that suspected of containing controlled substances, or gunshot residue.

EDUCATION AND TRAINING

2013 - 2018	Doctor of Science, Criminalistics	EQF Level 8
	CUNY Graduate Center, Thesis Title: Forensic Analysis of Fiber Dyes via Surface-Enhanced Raman Spectroscopy	
2013 - 2018	Master of Philosophy, Criminalistics	EQF Level 7
	CUNY Graduate Center	
2009 - 2013	Bachelor of Science, Criminalistics	EQF Level 6
	CUNY John Jay College of Criminal Justice, Department of Sciences	

PERSONAL SKILLS

Mother tongue(s)	Romanian
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Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user Common European Framework of Reference for Languages					

EXPERTISE FIELD	<ul style="list-style-type: none"> ● Analytical chemistry ● Controlled substance analysis ● Gunshot residue analysis ● Criminalistics
EXTRACURRICULAR ACTIVITIES	<p>Reviewer for the Journal of Forensic Sciences and Journal of Liquid Chromatography and Related Technologies</p> <p>Committee secretary – “Chimia prieten sau dușman”</p> <p>Editorial member of “AiChimie”</p> <p>Participating faculty for “Student pentru o zi”</p> <p>Committee secretary for Medical Chemistry bachelors’ program</p>
MENTOR OF STUDENTS	<ul style="list-style-type: none"> ▪ Bachelor- 3 students (last 5 years)

ISI PUBLICATIONS	<ol style="list-style-type: none"> 1. Cheregi, M.-C., Iorgulescu, E.-E., Comănescu, M.-A., David, I. G., & Trifu, A. S. (2025). Recent Advances in Benzodiazepine Electroanalysis. <i>Chemosensors</i>, 13(9), 351. https://doi.org/10.3390/chemosensors13090351 2. Moisi, Răzvan; Comănescu, Mircea-Alexandru; Medvedovici, Andrei-Valentin. (2025). Reversed-Phase (RP) and Hydrophilic Interaction (HILIC) Separation Mechanisms for the Assay of Nicotine and E-Cigarette Liquids, <i>Molecules</i>, 30(16), 3443. https://doi.org/10.3390/molecules30163443 3. Kocak, Ali; Lovera, Nicholas; Comanescu, Mircea Alex. (2025). Identification of different hair dyes in dyed hair using Attenuated Total Reflection Fourier Transform Infrared (ATR FT-IR) and Surface Enhancing Raman Spectroscopy (SERS), <i>Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy</i>, 335, 125952. https://doi.org/10.1016/j.saa.2025.125952 4. Preda, Dana-Maria; Comănescu, Mircea-Alexandru; Voicu, Victor; Grinberg, Nelu; Medvedovici, Andrei-Valentin. (2024). Peak Spectral Homogeneity in LC/DAD: Exploring Alternatives in Peak Purity Evaluations, <i>Processes</i>, 12 (12), 2887. https://doi.org/10.3390/pr12122887 5. Comănescu, Mircea-Alexandru; Preda, Dana-Maria; Miron, Dalia-Simona; Rădulescu, Flavian-Ștefan; Voicu, Victor; Medvedovici, Andrei-Valentin. (2024). A Simple HPLC-DAD Method for the Therapeutic Monitoring of Clozapine and Related Metabolites in Human Plasma and Urine Samples, <i>Molecules</i>, 29(21), 5039. https://doi.org/10.3390/molecules29215039 6. Comănescu, Mircea-Alexandru. (2024). Developing an In-House Application for Hazardous Chemicals Management, <i>ACS Chemical Health & Safety</i>, 31(6), 468-472. https://doi.org/10.1021/acs.chas.4c00062 7. Preda, Dana-Maria; Milev, Petru; Comănescu, Mircea-Alexandru; Medvedovici, Andrei Valentin. (2024). A comparative evaluation of sample preparation techniques for the therapeutic monitoring of carbamazepine in human plasma by RPLC/DAD, <i>Journal of liquid Chromatography & related technologies</i>, 47(11-15), 254-261. https://doi.org/10.1080/10826076.2024.2356211 8. Koçak, Ali; Wyatt, Waliah; Comanescu, Mircea Alex. (2021). Comparative study of ATR and DRIFT infrared spectroscopy techniques in the analysis of soil samples, <i>Forensic Science International</i>, 328, 111002. https://doi.org/10.1016/j.forsciint.2021.111002 9. Comanescu, Mircea A; Millett, Tiffany J; Kubic, Thomas A. (2019). A study of background levels of antimony, barium, and lead on vehicle surface samples by
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	<p>graphite furnace atomic absorption, <i>Journal of forensic sciences</i>, 64(2), 565-569. https://doi.org/10.1111/1556-4029.13899</p> <p>10. Haddad, Abed; Comanescu, Mircea A; Green, Omar; Kubic, Thomas A; Lombardi, John R. (2018). Detection and quantitation of trace fentanyl in heroin by surface-enhanced Raman spectroscopy, <i>Analytical Chemistry</i>, 90(21), 12678-12685. https://doi.org/10.1021/acs.analchem.8b02909</p> <p>11. Comanescu, Mircea A; Muehlethaler, Cyril; Lombardi, John R; Leona, Marco; Kubic, Thomas A. (2018). Competitive binding investigations and quantitation in surface-enhanced Raman spectra of binary dye mixtures, <i>Applied Spectroscopy</i>, 72(1), 60-68. https://doi.org/10.1177/0003702817723339</p>
NON- ISI PUBLICATIONS	<p>1. Kubic, Thomas A; Comanescu, Mircea A; Millett, Tiffany J. (2022). A Low-Cost Fiber Optic Visible Microspectrometer for the Small Forensic Science Laboratory, <i>Microscope</i>, 69(3), 99-107.</p>