

# ANDREEA ȘERBAN

## Education

- 2025 **Carol Davila University of Medicine and Pharmacy, Bucharest, Romania, PhD,** Medicine, Thesis Title: *Leveraging Predictive Analytics to Improve Patient Outcomes. Data Science Methods and Applications in Healthcare*
- 2024 **University of Bucharest, Romania, Master Business Administration,** Behavioral Economics, Valedictorian
- 2014 **Paris XI University, France, Master Research,** Regenerative Medicine and Transplant, graduated with distinction, French Government Excellency Scholar
- 2013 **Carol Davila University of Medicine and Pharmacy, Bucharest, Romania, M.D.,** Valedictorian; Class rank: 1st/ 637
- 2012 **René Descartes University, Sorbonne Paris Cité, Master Sciences,** Genetics and Advanced Statistical Modelling

## Experience

- 2022-present **Marie Sklodowska Curie Emergency Hospital for Children, Bucharest, Romania,** Resident Doctor in Allergy and Clinical Immunology

### Activities

Clinical duties. Designed and developed several clinical research projects

- 2020-present **KIDoc - The Association for Healthcare Innovation - Using technology to nurture inclusion and well-being for families of children with chronic diseases, Bucharest, Romania, NGO Founder**

### Activities

Team management, product definition, medical content creation, pitching, funding applications, parent community building, professional network creation, including medical doctors of different specialties and allied healthcare professionals

Participated to development and acceleration programs, such as Innovation Labs, Innovators for Children and Womenpreneurs in the Balkans Bootcamp

- 2022-2024 **PhylloPharma - pioneering biotechnology company specializing in the oral delivery of therapeutic proteins, with the flagship project oral CTB-Proinsulin for the treatment of diabetes, Philadelphia, Pennsylvania, Chief Operating Officer**

### Activities

Performed healthcare documentation, elaboration of presentation documents for both the scientific community of diabetes specialists and the general public, evaluated pre-clinical research proposals from a potential clinical impact perspective

Provided support in writing grant applications and pursuing funding initiatives

Elaborated the design of a pre-clinical canine safety and efficacy study on oral CTB-Proinsulin

- 2020-2023 **Carol Davila University of Medicine and Pharmacy, Bucharest, Romania, Teaching Assistant**

**Activities**

Theoretical and Practical Teaching of Paediatric Surgery for 4th year Medical Students. Updated teaching materials used in the Department and elaborated a student textbook. Supervised 12 MD Graduation Theses

2021-2022 **YTIIL Fellow- Young Transatlantic Innovation Leaders Initiative Program**, Selected to represent Romania in this U.S. Department of State Program

**Activities**

Continuous business training program from DePaul University Chicago  
Participation in a 5 week fellowship in Chicago, Philadelphia and Washington in May-June 2022- Digital Innovation applied to Healthcare

2019-2022 **Fundeni Clinical Institute and Sheba Medical Center Tel Aviv Israel**, Clinical Researcher

**Activities**

Worked in a EU-funded research project aiming at treating children's diabetes through cell therapy. I have written and applied for two international patents on the topic, together with the team from the Center of Excellence in Translational Medicine

2014-2022 **Maria Sklodowska Curie Emergency Hospital for Children, Bucharest, Romania**, Medical Doctor Paediatric Surgery

**Activities**

Clinical duties. Represented Romania in several international clinical research programs, such as Global PaedSurg, a project for children with congenital malformations and GlobalSurg Collaborative, an international project involving healthcare providers from all surgical specialties

May 2017- **Great Ormond Street Hospital, London, United Kingdom**, Junior Doctor, Specialist Neonatal and Paediatric Surgery, Clinical Research Assistant, Rota Coordinator for Junior Doctors  
Apr 2018

**Activities**

Clinical duties. Coordinated collaborative research with pediatric oncology experts from UCL and King's College London in a project looking into prognostic factors for patients diagnosed with neuroblastoma, a type of cancer commonly affecting children aged 5 or younger

Mar- Aug 2015 **Kannerklinik- Centre Hospitalier de Luxembourg**, Resident in Paediatric Surgery

**Activities**

Clinical activity, participated in inter-departmental collaborative projects

Sep 2013- **Pasteur Institute, Human Histopathology and Animal Models Unit, Paris, France**, Invited Researcher, French Government Scholar  
Aug 2014

**Activities**

Master thesis regarding the beneficial effects of X309 on neuromuscular chronic diseases in children based on a rodent model of Duchenne Muscular Dystrophy. The data was later included in an international patent- 5-hydroxytryptamine 1b receptor-stimulating agent for use as a promoter of satellite cells self-renewal and/or differentiation- WO2017013031A1

As a result of the very promising data obtained, a company named RegStem (<https://www.regstem.com/>) was founded in 2017, in order to progress to phase 2 clinical research

Oct 2011- **Necker Enfants Malades Hospital, INSERM Unit 781 Genetics and Epigenetics of Metabolic, Neurosensorial and Developmental Diseases, Paris, France**, Research Fellow  
Sep 2012

Mar-Apr 2011 **Centre of Excellence for Dermatological Research, Semmelweis University, Budapest, Hungary**, Research Intern

## Coursework

1. **Advanced Data Analysis Training**, University College London, Centre for Applied Statistics: Regression Analysis, Sample Size Estimation, Critical Appraisal of Scientific Literature, Dealing with missing data, ANOVA modelisation
2. **Course on Intellectual Property**, World Intellectual Property Organization- WIPO Academy
3. **Health in Numbers: Quantitative Methods in Clinical Public Health Research**, Harvard School of Public Health
4. **Working with Databases**, Stanford University
5. **Advanced Statistics- Probabilistic and Statistical Modelling**, Division of Graduate Studies, The Faculty of Pharmacy, Paris V University

## Prizes and Distinctions

- December 2024 **Healthcare Innovation Award**, Software and IT Services Industry Association - ANIS Gala, Bucharest, Romania
- December 2024 **Excellence Award for Thesis in Technology Adoption in Healthcare**, University of Bucharest Gala, Bucharest, Romania
- Sep 2020 **Project KIDoc- Winner 15k EUR funding**, Innovators for Children Startup Competition, Bucharest, Romania
- Sep 2019 **Young Investigator Award**, The University of Medicine and Pharmacy International Conference, Bucharest, Romania
- Mar 2018 **Junior Doctor of the Year**, Great Ormond Street Hospital Gala, London
- Aug 2016 **Entrepreneurial Project of the Year Award**, Paris Saclay Entrepreneurship Centre
- Jan 2015 **Distinction for Academic Excellence**, listed as one the best Romanian students in all fields, Romanian Parliament Gala
- Oct 2013 **Prize for Excellence in Medical Research and Academic Activity**, GlaxoSmithKline and Carol Davila University of Medicine and Pharmacy, Bucharest
- Jul 2012 **Leaders Foundation Prize**, scholarship for the Summer Leaders School 2012, under the patronage of his Excellency Prince Radu of Romania

## Skills and Interests

- English (Proficient), French (Proficient), Spanish (Proficient), Romanian (Native)
- Technical Skills
  - Data Science and Analytics: Machine learning (Python), predictive modeling, advanced statistical analysis (R, Stata, SPSS, EpiInfo), data visualization, feature engineering
  - Databases and Data Management: SQL
- Leadership skills- leading an NGO team of seven tech professionals and five pharmacology specialists.