

Angela Boccia

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PERSONAL STATEMENT

PhD Candidate specializing in Pharmacovigilance and Cardio-Oncology with a proven track record in mining and analyzing large-scale spontaneous reporting databases. Expert in leveraging the FDA FAERS database and advanced R programming to detect, characterize, and enrich safety signals associated with novel cancer therapies. Adept at translating complex quantitative safety findings into clinical insights through cross-functional collaboration.

EDUCATION

PhD Researcher – AI in Pharmacovigilance

University of Copenhagen, Copenhagen, Denmark | September 2026 – Present

PhD Candidate in Health and Technology

University of Bologna, Bologna, Italy | Nov 2024 – Present (Expected Graduation: Nov 2027)

- **Research Focus:** Quantitative safety assessment and cardio-oncology safety signals monitoring.

Master's Degree in Health Biology

University of Bologna, Bologna, Italy | Sep 2022 – Jul 2024

- **Thesis:** Evaluation of Treatment Patterns in Patients with Moderate-to-Severe Psoriasis Undergoing Treatment at the Sant'Orsola-Malpighi Polyclinic
- **Final Grade:** 110/110 Cum Laude.

RESEARCH EXPERIENCE

PhD Researcher – Pharmacovigilance & Cardio-Oncology Lab

University of Bologna, Bologna, Italy | University of Copenhagen, Copenhagen, Denmark | Nov 2024 – Present

- **Data Pipeline Development:** Built and optimized automated R scripts to clean, structure, and de-duplicate millions of adverse event reports within the FDA FAERS database, reducing preprocessing time by 30%.
- **Signal Detection & Enrichment:** Conducted large-scale disproportionality analyses using R (calculating ROR, PRR, and Information Component) to evaluate and map critical cardiotoxic risks (e.g., myocarditis, arrhythmias) linked to Immune Checkpoint Inhibitors (ICIs) and Targeted Therapies.
- **Methodological Rigor:** Handled complex reporting biases, including the Weber effect and notoriety bias, ensuring high specificity and reproducible workflows aligned with industry standards.

- **Cross-Functional Collaboration:** Coordinated regularly with cardiologists, oncologists, and clinical trialists to contextualize big data findings with real-world biological mechanisms, presenting findings at departmental meetings.

Tutor in Clinical and Health Research Methodology

University of Bologna, Bologna, Italy | Feb 2024 – Jun 2024

- Advanced training course in clinical and health research methodology.

TECHNICAL SKILLS

Pharmacovigilance & Databases: FDA Adverse Event Reporting System (FAERS), MedDRA Coding (PT, HLT, SOC, SMQs).

Statistical Programming: R, Stata, Python, Git / GitHub (Version Control).

Therapeutic Domains: Cardio-Oncology, Targeted Cancer Therapies, Immuno-Oncology safety management.

Languages: English (Full Professional Proficiency / Fluent), Italian (Native).

PUBLICATIONS & CONFERENCES

Publications:

- Boccia A, Hyeraci G, Girardi A, et al.. The Contribution to the Assignment of Defined Daily Dose (DDD) to Antineoplastic Drugs of the Italian Working Group on DDD. *Pharmacoepidemiol Drug Saf.* 2026 May;35(5):e70379. doi: 10.1002/pds.70379. PMID: 42082897; PMCID: PMC13139508.
- Donati M, Boccia A, De Ponti F, Poluzzi E, Raschi E. Long-term surveillance of the anti-amyloid monoclonal antibody lecanemab: rights and duties of pharmacovigilance. *Alzheimers Res Ther.* 2025 Apr 11;17(1):80. doi: 10.1186/s13195-025-01699-6. PMID: 40217276; PMCID: PMC11992755.
- Boccia A, Giunchi V, Girau L, Lunghi C, La Placa M, Bardazzi F, Poluzzi E. Treatment sequences in moderate-to-severe psoriasis: a hospital-based retrospective analysis. *Expert Opin Biol Ther.* 2025 Sep;25(9):1007-1015. doi: 10.1080/14712598.2025.2542508. Epub 2025 Aug 1. PMID: 40740001.

Conferences: Co-authored and presented various research works at various high-profile national and international conferences over the past two years. This includes Oral Presentations and Poster Presentations focusing on Pharmacoepidemiology and Pharmacovigilance.

(Full list of abstracts and conference proceedings available upon request)

AWARDS & EXTRACURRICULAR ACTIVITIES

Scholarship:

ISPE (International Society for Pharmacoepidemiology) – 2024

SIF (Italian Society of Pharmacology) – 2026

- **Graduation Award for Academic Merit** – University of Bologna | 2026

Awarded to top-ranking graduates for exceptional academic achievement.