



Universiteit Utrecht

# DOC-TRACK: STEM Doctoral Graduates and Inventive Activities in Four European Countries

Data linkage between PATSTAT and Electronic Doctoral Theses (EDT) datasets

Funded by: 2021 European Patent Office Academic Research Program

Project duration: 3 years (2022-2025)

**Abstract:** Based on Electronic Doctoral Theses (EDT) repositories, we match information on the doctoral graduates of France, Germany, the Netherlands and Spain to patent and scientific publication data. We thus identify both the graduates who become inventors and those who become scientists and publish articles cited in the patent literature, either directly (patent - graduate's publication citation) or indirectly (patent - other publications - graduate's publication citation chain). We collect the same information for the graduates' supervisors. We then explore the factors affecting the probability of graduates engaging in inventor careers and/or scientific ones, but with invention-relevant publications. These include gender and the supervisors' scientific and inventive record. For France and Germany, we also focus on the specific contribution of foreign graduates.

Research team:

Institute of Public Goods and Policies – Spanish National Research Council (Spain), CSIC-IPP

- Catalina Martinez (DOC-TRACK project coordinator), Alberto Corsini (DOC-TRACK postdoctoral researcher), Luis Sanz-Menendez, Laura Cruz-Castro, Clara Casado.

Bordeaux School of Economics – University of Bordeaux (France), BSE

- Ernest Miguelez, Francesco Lissoni, Andriy Romanyuk, associated researcher: Michele Pezzoni (U. of Cote D'Azur).

INCHER – University of Kassel (Germany)

- Guido Buenstorf, Johannes Koenig, Urcu Bozgun.

Dept. of Human Geography and Planning - Utrecht University (The Netherlands)

- Andrea Morrison, associated researchers: Stefano Breschi (Bocconi Univ.), Fabiana Visentin (U. of Maastricht).