

ROBIN POINTET

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RESEARCH INTERESTS

Economics and management of innovation; diffusion of complex technologies; science and technology studies; health technology assessment; medical devices and advanced heart failure.

REFERENCES

Marie Coris

Professor of Economics, BxSE, University of Bordeaux

Relationship: PhD supervisor

Email: marie.coris@u-bordeaux.fr

Julien Pénin

Professor of Economics, BETA, University of Strasbourg

Relationship: PhD supervisor

Email: penin@unistra.fr

Stéphane Garrigue

Cardiologist, Saint-Augustin Surgical Center

Chief Scientific Officer, FineHeart

Relationship: PhD co-supervisor

Email: stephane.garrigue@fine-heart.com

Mandeep R. Mehra

Executive Director, Center for Advanced Heart Disease, Brigham Health

Professor of Medicine, Harvard Medical School

Relationship: Fulbright host and research supervisor

Email: mmehra@bwh.harvard.edu

EDUCATION

PhD in Economics, University of Bordeaux

Expected Dec 2026

Dissertation: *Innovation and complex medical devices: opening the market and addressing public health issues - the case of the heart failure treatment sector*.

Supervisors: Marie Coris; Julien Pénin; Stéphane Garrigue.

Research stay: Fulbright Fellow, BWH / Harvard Medical School (Boston, USA)

Spring 2026

MSc in Applied Economics (Economics of Innovation), University of Bordeaux

Sep 2021 – Jun 2023

Honors (France: *Mention Bien*); top-ranked in cohort (*major de promotion*).

Master's thesis: *Innovation in Implantable Medical Devices Between Public Health Issues and Economic Opportunities: The Case of Heart Failure Treatments*. ([Available here](#))

Double Bachelor's Degree: Economics & Management; Applied Foreign Languages (English, German),

University of Strasbourg

Sep 2018 – Jul 2021

Honors (France: *Mention Bien*).

Bachelor's theses: *Spatial Determinants of Social Acceptability: A Case Study on Energy Innovations in Fessenheim* (German); *Open-Source Innovation: Towards Applications Beyond the Software Industry* (English).

RESEARCH

Research focus. Innovation and diffusion of complex, high-risk medical technologies, with emphasis on how regulation, reimbursement, organizational incentives, and financing structures shape market formation and patient access.

Publications

Mehra, M.R., Coris, M., Pointet, R. (2026). *Why LVAD Use is Stagnant: A Failure of Diffusion and a Path Forward*. Journal of Heart and Lung Transplantation [Preprint]. [Available here](#)

Working papers

Pointet, R., Coris, M. (working paper). *Complex Medical Devices Facing Innovation Bottlenecks? The Case of Ventricular Assist Devices*. [Draft available here](#)

Works in progress

Pointet, R. *Financing innovation in active implantable medical devices: does venture capital structurally fall short?*
Pointet, R. *Mechanical Circulatory Support and Graft Discard: Evidence of a Matching Externality in Heart Transplantation*.

Selected conference presentations

1. *The Technico-Medico-Economic Trajectory of LVADs: Rethinking innovation in class III medical devices* (Full Paper), Augustin Cournot Doctoral Days, Strasbourg, FR, Apr 2025.
2. *Are Cardiac Assist Devices facing an innovation bottleneck?* (Full Paper), ISPIM Connects, Cape Town, ZA, Mar 2025.
3. *The evolution of mechanical circulatory support devices for advanced heart failure* (Abstract and Paper), DRUID PhD Academy, Odense, DK, Jan 2024.

Research funding & fellowships

1. 2026 Fulbright Fellowship (USD 13,200).
2. Doctoral funding (competitive selection): awarded by both the University of Strasbourg and the University of Bordeaux; chose Bordeaux.
3. Young Researcher Grants, University of Bordeaux (Social Sciences Dept.) — 2025 & 2026 (research travel to Boston).

RESEARCH-RELEVANT EXPERIENCE

Co-founder & COO, Early-stage MedTech Venture (pre-creation) Jan 2025 – Present

- Co-founded an early-stage MedTech venture developing a patented NT-proBNP biosensor based on molecularly imprinted polymer (MIP) technology.
- Responsible for strategy, project coordination, business modeling, financing preparation, and market access considerations.
- The project provides a real-world testing ground for my research on diffusion failures, institutional alignment, and user adoption in high-risk medical technologies.
- Recognized as *2nd place, iGEM Startup Competition*; 1 patent filed.

Contributor, Innovation Skills Framework & University-wide Module Sep 2024 – Dec 2025
University of Bordeaux *Bordeaux, France*

- Co-designed an Innovation Skills Reference Framework to strengthen innovation competencies across university programs.
- Developed a university-wide module, *Introduction to Innovation*, aimed at non-specialist undergraduate students (bridging theory with real-world applications).

Research Assistant May 2022 – Jul 2022
IHU Liryc *Bordeaux, France*

- Analyzed 7,000+ patents to map the technological evolution of left ventricular assist devices (LVADs) across three generations.
- Identified key patterns (incremental innovation, performance trade-offs, and increased R&D outsourcing) and presented findings to interdisciplinary teams (economists, clinicians, medical researchers).

Research Assistant

Bordeaux School of Economics (CNRS UMR 6060)

Jan 2022 – Apr 2022

Bordeaux, France

- Studied how monopoly structures shape innovation incentives, with a focus on R&D outsourcing strategies in medical devices.
- Presented results in steering committees with academic and industry stakeholders (IHU Liryc, FineHeart), supporting subsequent research collaboration.

Research Assistant

CRESAT (UR 3436), CERDACC (UR 3992)

Mar 2021 – Jul 2021

Mulhouse, France

- Built a spatial analysis approach to assess social acceptability of energy innovation in the Upper Rhine region.
- Delivered a feasibility report and presented findings to institutional stakeholders (Interreg) in English and German.

TEACHING EXPERIENCE (SELECTED COURSES)

Bordeaux University and partners

Sep 2023 – Present

Approx. 32 hours of teaching per year (French/English); graduate and professional audiences.

- **Introduction to Economics and Management of Innovation** (12h, English) — Graduate Program Cardiac EP (Bordeaux University, IHU Liryc).
- **Business Strategy** (13.5h) — MSc Economics of Innovation (Bordeaux University).
- **Economics of Patents and Applications to Health Industries** (3h, French) — MA Philosophy: Care, Ethics, and Health (Bordeaux Montaigne University).
- **Organization and Industrial Economics** (13.5h, French) — BSc Social and Economic Administration (Bordeaux University).
- **Disrupt Campus** (10h, French) — supervision of multidisciplinary master's teams on real-world cases (social economy sector).

PROFESSIONAL DEVELOPMENT

Teaching in the International Classroom

Bordeaux University (18-hour certified training)

Jun 2024

Intensive Course on Computational Methods and Agent-Based Modelling in Social Sciences

Instructors: Tommaso Ciarli; Marco Valente (35-hour certified training)

Feb 2023

LANGUAGES

French (native)

English (fluent)

German (fluent; Abibac, bilingual French–German curriculum)

LEADERSHIP & ACTIVITIES

Leadership: President, Les Étudiants du Cœur (2023-2025) — €6,000 raised for Mécénat Chirurgie Cardiaque; conferences on economics & health.

Athletics: Olympic weightlifting (national level; coach, Level 2 Federal Diploma; board member)