

STI Summer School 2026

11th Summer School on Data & Algorithms for
Science, Technology & Innovation Studies

7–9 September 2026

Valrose Castle, Nice

stisummerschool.org

Preliminary program — subject to change

Program

Presenters in paper sessions have 15 minutes each; the last part of each session is reserved for questions and discussion. Each poster presenter has 4 minutes to pitch their work during the Poster Slam, followed by a coffee break dedicated to the posters. The program is subject to change; the final version will be available a few days before the event.

Monday, 7th of September

12:00–12:45 **Registration & Lunch**

12:45–13:00 *Opening Remarks: Bart Van Looy*

13:00–13:45 **Industry & Practice** Chair: Bart Van Looy

EPO Data Products and Projects: What's New & What's Next?

Yann Menière (Chief Economist, EPO), **Victor Arribas Martinez** (EPO Observatory),
Catalina Martinez (CSIC-IPP)

13:45–14:45 **Poster Slam I** Chair: Julie Callaert

In this session, poster presenters pitch their research in 4 mins. During the break, you will find them at their poster for an in-depth discussion. Please take your coffee with a poster or two! Find an overview of all pitches on page 5.

14:45–15:15 **Coffee with Posters**

15:15–16:15 **Keynote I** Chair: Dennis Verhoeven

Ashish Arora (Duke University), online

16:15–17:00 **Industry & Practice** Chair: Bart Van Looy

Google session: Patent data organization using LLMs

James Forman (Data scientist at Google), online

17:00–17:30 **Coffee**

17:30–19:00 **Paper Session I** Chair: Sam Arts

EXPLORING THE KNOWLEDGE SPACE OF INNOVATION

Mapping the Problem Space of Innovation

Fabian Gaessler (Pompeu Fabra / Max Planck)

Knowing the Hammer or the Nail: Problem- vs Solution-Domain Knowledge Specialization

Nikki Lagerweij (ETH Zurich)

AI in the Lab: AlphaFold2's Impacts on Human-Produced Knowledge

Jerry (Jiarui) Qian (University of Virginia)

*From Invention to Innovation: How AI as a General-Purpose Technology Reconfigures
Patent Commercialization*

Yuan Yuan (Warwick Business School)

Tuesday, 8th of September

09:00–10:00 **Keynote II** Chair: Reinhilde Veugelers

Airplanes for the mind: AI agents and the science of science

Dashun Wang (Kellogg, Northwestern)

10:00–11:00 **Poster Slam II** Chair: Julie Callaert

*In this session, poster presenters pitch their research in **4 mins**. During the break, you will find them at their poster for an in-depth discussion. Please take your coffee with a poster or two! Find an overview of all pitches on page 6.*

11:00–11:30 **Coffee with Posters**

11:30–13:00 **Paper Session II** Chair: Paul-Emmanuel Anckaert

THE SCIENCE OF SCIENCE: CAREERS, EVALUATION & FUNDING

Middle-Status Myopia

Marlon Alves (SKEMA Business School)

The Commercial Value of (Cut) Science

Antoine Mathieu Collin (KU Leuven)

Expertise and Predictive Validity in Grant Peer Review: Evidence from the Novo Nordisk Foundation

Andola Stanaj (Politecnico di Milano)

Mapping Professional Identity Strategies in Academic Narratives

Luca Bollinger (KU Leuven)

13:00–14:00 **Lunch**

14:00–15:00 **Keynote III** Chair: Sam Arts

Unlocking R&D Value: Hidden Treasures and Emerging Trajectories

Joshua Krieger (Harvard Business School)

15:00–15:30 **Coffee**

15:30–17:00 **Paper Session III** Chair: Dennis Verhoeven

NEW PATENT INDICATORS & MEASUREMENT

CLEARPAT: AI-Curated Full Historical USPTO Patent Information for Research, 1836–1975

Zenne Hellinga (Utrecht University)

A Shot in the Dark: From Patent-Value Predictors to Meaningful Economic Signals

Simen Gaens (KU Leuven)

Hidden Reliance on Scientific Ideas and Firm Innovation

Nicola Melluso (LUISS University)

Examination Timing and Prior Art Relevance: Evidence from Semantic Similarity of Patent Citations

Yasushi Hara (Kobe University)

17:00–17:20 **Coffee**

17:20–18:45 **Panel: AI & Innovation in Europe**

Hosts: Ludovic Dibiaggio (SKEMA) & Reinhilde Veugelers (KU Leuven)

Hanan Osman-Ponchet (CEO, PKDERM)

David Simplot (INRIA / 3IA Côte d'Azur / CA Sophia Antipolis)

Chiara Criscuolo (OECD)

Frédéric Feresin (Azurla)

20:00 **Dinner on the beach**

Wednesday, 9th of September

09:30–10:30 **Paper Session IV** Chair: Bruno Cassiman

BIOMEDICAL INNOVATION: IP, LICENSING & REGULATION

Licensing and Innovation Regimes in Pharmaceutical R&D

Michele Liberatore (IMT School for Advanced Studies Lucca)

Bad Knowledge Spillovers and the Diffusion of Innovation Failures

Gianluca Murgia (University of Siena)

*Regulatory Incentives and Strategic Innovation: Evidence from the FDA Breakthrough
Therapy Designation*

Ha Chu Thi (Esade Business School)

10:30–11:00 **Coffee**

11:00–12:30 **Paper Session V** Chair: Reinhilde Veugelers

SCIENCE & INNOVATION POLICY

Who Patents Public Research? New Evidence on the European Paradox

Michael Rose (Max Planck Institute)

China Nears Sovereignty in Technological Innovation

Ziyu Chen (University of Hong Kong)

Scientific Research, Global Health, and Gender Gaps: A New Data Infrastructure

Leo Schmallenbach (University of Mannheim)

To Make or To Buy? Scientific Capabilities and Innovation Strategy under Demand Pressure

Rujuta Bhagwat (Bocconi University)

12:30–13:00 *Closing Remarks: Bart Van Looy*

13:00–14:00 **Lunch**

Poster Slam I, Monday 7th of September

Not All Maps Are Equal: Heterogeneity in Science and Corporate R&D

Paul-Emmanuel Anckaert (SKEMA Business School)

Who Picks Up German Science? Pathways from German Biotechnology Research to Patented Inventions

Marie Aster (University of Passau)

A Novel Method to Identify Emerging Speciation Technologies

Max Denzinger (University of Bremen)

What Citations Miss: An LLM-Extracted Biographical Signature of Recognised Breakthrough Inventors

Arash Hajikhani (VTT Finland)

LLM-Driven Content-Based Knowledge Graphs: A New Perspective to Study a Scientific Field

Seorin Kim (Vrije Universiteit Brussel)

How Success Speaks: Clustered Linguistic Profiles in Grant Applications

Tetiana Lem (Stockholm School of Economics)

Measuring Novelty in Science Using LLMs

Cheng Li (Max Planck Institute)

Dispersion and Order in Technology Spaces Following AI-Enabled Shocks

Dylan McNally (Tilburg University)

The Strategic Intersection of Frugal Innovation and Patenting

Sebastian Stade (University of Bremen)

Localized Knowledge Spillovers Revisited: A Replication with Semantic Distance Using LogicMill

Kaan Uctum (Technical University of Munich)

Mapping the Quantum Frontier: An Analysis of Global Patent Filing Trends in Quantum Technology

Raghvendra Singh Yadav (MIPLC Munich)

Poster Slam II, Tuesday 8th of September

A Structural Analysis of LLM-Generated Research Methodologies

Francesca Carlon (Vrije Universiteit Brussel)

Governing at Scale: Identifying Governance Technology in Sharing Platforms Through AI-Assisted Patent Analysis

Qi Ang Du (University of Cambridge)

Building an Attribution-Provenance-Remuneration Ecosystem for AI: A DAO Architecture with Tokenized Licensing, AMM-Based Settlement, and Fair Value Distribution

Jan-Gero Alexander Hannemann (University of Cambridge)

Quantifying Startup Novelty: Innovation Novelty and Transience in Early-Stage Startups

Reem Ismail (Université Paris Dauphine)

From Playfulness to Performance: How Playful Prompting Influences the Creative Output of LLMs

Sevginur-Elif Kocabas (University of Bremen)

Modeling Public Fear of AI-Driven Job Displacement in the United States Across a Decade

Austin Lee (Texas Tech University)

Topic-Level Misalignment in Corporate AI Talks and Action

Faiza Liaqat (LUISS Guido Carli)

Modularity and Architectural Control: Implications on Learning

Iris Poon (SKEMA Business School)

Innovation Signals and Clinical Translation in Personalized Medicine

Yi Shan (IMT School for Advanced Studies Lucca)

Data Breaches and Their Impact on Firms' Innovation Strategy: Evidence from U.S. Firms

Domenika Uskova (Warwick Business School and Nova School of Business and Economics)

Anticipated Evaluation Standards and Innovation Search: An Agent-Based Model

Magnus van Haaren (Erasmus University / RSM)
