

## Shannon Dyer

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Nationalities : Swiss and English



## EDUCATION

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- **MiM & M.Sc., MANAGEMENT AND INNOVATION Dual Degree - [3.5 / 4]** **Paris, Munich**  
*HEC Paris, TU Munich* 08.2021 – 11.2023
  - Master Thesis on innovation measurement of R&D for decarbonization with Bystronic Laser AG
- **MSc, BIOGEOSCIENCES - [5 / 6]** **Lausanne**  
*University of Lausanne* 09.2015 – 07.2017
  - Master Thesis on the study of the biogeochemical water cycle of the Northern Kalahari
  - Certificate of Business Concept at EPFL, startup project owner

## SELECTED EXPERIENCES

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- **WORKING STUDENT SUSTAINABILITY** **Berne**  
*Bystronic Laser AG* 02.2023 – 11.2023
  - Co-created global net-zero roadmap, R&D strategy and 20+ product features to implement decarbonization by analysing product and its lifecycle and engaging 15+ expert stakeholders
  - Created KPI management model for 20+ R&D managers to implement R&D strategy by analysing 100+ papers and talking to whole R&D department
  - Created and implemented automated Scope 3 CO<sub>2</sub>e data process, increasing Scope 3 figures precision by 30% and saving 2000+ work hours /y by interlinking with controlling processes and by creating a product usage model based on multiple data lakes
  - Built 20+ LCA models of products and variants across 3 business lines by analysing BOMs and whole product life cycles data
  - Built LCA organizational capability by training 3 engineers to use LCA software and understand data
- **SCIENTIFIC ASSISTANT** **Zurich**  
*Federal Institute of Technology Zurich (ETHZ)* 10.2020 – 07.2021
  - Discovered a biomarker to reconstruct lake coverage by invasive plant and improve satellite data precision for past 30 years by analysing 120+ samples with mass spectrometry and analysing data
  - Generated core scientific data for 2 PhDs and 1 Post-Doc, leading to 3 peer-reviewed publications
- **BUSINESS and SCIENTIFIC CONSULTANT** **Lausanne**  
*Neobinol* 02.2018 – 05.2019
  - Designed a patentable manufacturing system to process 30t/y of botanicals by transposing conventional laboratory cleaning processes into extraction processes
  - Persuaded investors to fund laboratory equipment with 120k by pitching manufacturing system concept
  - Initiated first sale contract, bringing 50k/y of recurrent revenue by networking

- **R & D ENGINEERING INTERN**

*Bosch SEA PTE LTD*

**Singapore**

*07.2019 – 11.2019*

- Performed 20+ experiments in ISO Class 6 clean room leading to 200%+ lifetime improvement of chemosensor technology by identifying boundary conditions (3) and failure modes (3) via analysis of experimental data

## **EXTRACURRICULAR**

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- **CO-FOUNDER**

*Vert Un Monde*

**Lausanne**

*11.2018 – 05.2019*

- Co-founded association educating 300+ citizens and students on food provenance, quality and health by converting ½ ha of unused communal land into a productive public orchard

- **VOLUNTEER**

*COTERC*

**Tortuguero, Costa Rica**

*08.2014*

- Collected scientific data on 25+ green sea turtle and monitored the Tortuguero national park for various mammals and reptiles, helping conservationists build knowledge

## **COMPETENCIES**

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- **LANGUAGES**

- French (mother tongue); English (full proficiency), German (B2)

- **SOFTWARE**

- Microsoft Office Suite, R basics, Tableau basics, EcoDesign Studio (LCA)

- **SKILLS & TRAITS:**

- Research, Data Analysis, Oral and Written Communication, Presentation, Innovation Management, Strategic Management, Project Management, Team Management, Systemic Thinking
- Curious, Critical, Analytical, Fast-Learner, Persuasive, Persistent, Flexible, Independent, Listener, Creative and Structured, Entrepreneurial, Interdisciplinary

## **PERSONAL**

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- Learning from experience, readings, people, traveling, museums, courses, workshops
- Creating: sculpture, drawing, writing
- Sports: hiking, weightlifting, bouldering