

LUC BONDAZ

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EDUCATION

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|-------------|--|-----------------------|
| 2020 - 2024 | Swiss Institute of Technology Lausanne (EPFL) <i>PhD Thesis in Chemical Engineering</i> <i>Study of mass transport across nanoporous single-layer graphene for gas separation</i> | Lausanne, Switzerland |
| 2020 - 2022 | Imperial College Business School <i>MSc Business Analytics in parallel with my PhD</i> <i>Core modules: Data structures and Algorithms, Statistics and Econometrics, Machine Learning</i> | London, UK |
| 2020 | Massachusetts institute of Technology (MIT) <i>Master's Thesis in Chemical Engineering (GPA: 6/6)</i> <i>Theoretical study of mass transport across graphene nanopores</i> <i>Scholarship: Zeno Karl Schindler (ZKS) Foundation</i> | Boston, USA |
| 2015 - 2020 | Swiss Institute of Technology Lausanne (EPFL) <i>MSc and BSc in Chemical Engineering and Biotechnology (GPA: 5.42/6)</i> <i>Core modules: Quantum Chemistry, Process development, Advanced Physics, Biochemistry</i> <i>Exchange year at the University of Edinburgh</i> | Lausanne, Switzerland |

WORK EXPERIENCE

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| 2019 - 2020 | Rolex Intern Project Manager <ul style="list-style-type: none">Directed development and integration of a new material for novel Rolex watches | Geneva, Switzerland |
| 2019 | Industrial Process and Energy System Engineering (IPESE) Intern Researcher Student <ul style="list-style-type: none">Dynamic simulation of a swing adsorption process (gPROMs and aspen adsorption) | Sion, Switzerland |
| 2019 | Group of Chemical and Physical Safety (GSCP) Intern Researcher Student <ul style="list-style-type: none">Development of managerial techniques to protect researchers from exposure to hazardous materials | Lausanne, Switzerland |
| 2018 - 2019 | Laboratory of Advanced Separation (LAS) Intern Researcher Student <ul style="list-style-type: none">Design of a self-supporting carbon nanotube film to allow crack free transfer of single-layer graphene | Sion, Switzerland |
| 2017 | Laboratory of Computational Systems Biotechnology (LAS) Intern Researcher Student <ul style="list-style-type: none">Simulation of malaria metabolism in human liver | Sion, Switzerland |

ACHIEVEMENTS

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| 2015 - 2017 | Elite Judo Athlete <ul style="list-style-type: none">Distinction given by French Ministry for top National Judo Competitors | France |
| 2016 | Black belt 2nd Dan in judo <ul style="list-style-type: none">Black Belt distinction in Judo | France |
| 2015 | France FSGT judo champion <ul style="list-style-type: none">National Judo Champion | France |
| 2015 | 3rd at Switzerland championship <ul style="list-style-type: none">Top 3 National Athlete | Switzerland |

ADDITIONAL SKILLS

IT SKILLS

Machine learning, SQL, Matlab, Python, R, C, Aspen Plus, Aspen Adsorption, gPROMS, Avogadro

LANGUAGES

French (C2), English (C1), German (B2)

PUBLICATIONS

- W. C. Lee, **L. Bondaz**, S. Huang, G. He, M. Dakhchoune, K. V. Agrawal. "Centimeter-scale gas-sieving nanoporous single-layer graphene membrane." *J. Memb. Sci.* **618**, 118745 (2020).