

Nicolas DIETRICH, PhD, age 40 years
 Date of birth: June 12th, 1980 - French
www.ndietrich.com

ORCID: 0000-0001-6169-3101
 Scopus ID: 24070415100
 ResearcherID: E-4971-2017

• EDUCATION

- 2018 **Habilitation** (Habilitation à Diriger des Recherches en Science – HDR), Institut National Polytechnique de Toulouse (INPT), Toulouse, France. Title: “Étude de l’hydrodynamique et du transfert de matière aux interfaces gaz-liquide : Les outils de visualisation optiques au service de la modélisation en Génie des Procédés.”
- 2008 **PhD in Chemical Engineering**, Institut National Polytechnique de Lorraine (INPL), Nancy, France. Title: “Étude locale et expérimentale des phénomènes interfaciaux”. Laboratoire des Sciences du Génie Chimique (LSGC), Nancy. Supervisor: Pr. Huai-Zhi LI & Dr. Souhila Poncin
- 2005 **Engineering degree** in Chemical Industries (Ingénieur des Industries Chimiques), École Nationale des Industries Chimiques, Institut National Polytechnique de Lorraine (INPL), Nancy, France
- 2005 **Master’s degree** in Chemical Engineering and products, Institut National Polytechnique de Lorraine (INPL), Nancy, France

• CURRENT POSITION(S)

- 2009 – Today: **Associate Professor** at INSA Toulouse – Chemical Engineering – Energy, Water & Environment Department – Toulouse Biotechnology Institute (ex-LISBP), Toulouse, France

• PREVIOUS POSITIONS

- 2008 – 2009 Assistant professor (Attaché Temporaire d’Enseignement et de Recherche), ENSIC, Nancy, France
- 2005 – 2008 Ph.D student, Funding from the French Ministry of Higher Education & Research, LSGC, Nancy, France,

• PUBLICATIONS

Number of publications in peer-reviewed journals: **55 (+6 submitted)**
25% of which as first author, 55% as a corresponding author

Total number of citations: **over 1200 citations, most cited publication at 160 citations**
(Google Scholar, Feb. 2021) and 99 (Scopus, Feb. 2021)

H-index: **19** (Google Scholar, Feb. 2021) **17** (Scopus, Feb. 2021)

Publications in other scientific journals: **8**

Conferences and communications: **71**

Invited lectures & Keynote lectures: **15**

Patents: **5** (2 French, 1 European, 1 US and 1 World patent).

• INSTITUTIONAL RESPONSIBILITIES

- 2020 – today Co-Head of the Research group in “Transfer-Interface-Mixing” of TBI Lab (40 persons).
- 2015 – today Head of the Master of Science in “Complex System Engineering” of University of Toulouse, INSA Toulouse, INP Toulouse, IMT Mines d’Albi, (2-year programme, 480 ECTS credits, 50 students per year), Toulouse and Albi, France
- 2018 – today Co-Head of the “Multiphase Flow” research group of the FERMaT research federation (FR3089) involving 50 scientists and 30 PhD students in the Occitanie region, Toulouse and Albi, France
- 2013 – today Co-Head of the master’s degree “Fluid Engineering for Industrial process”, (2-year programme, 120 ECTS credits, 30 students per year), INSA Toulouse & INP Toulouse, France
- 2015 – today Head of the 4th year of engineering course in Chemical Engineering (60 ECTS credits, 50 students per year), INSA Toulouse, France
- 2012 – 2017 Head of the transition semester for international students of the n+i network, 25 students per year, INSA Toulouse, France

• SUPERVISION OF GRADUATE STUDENTS AND POSTDOCTORAL FELLOWS

- 12 PhD supervisions: Mélanie Jimenez (2010-2013), Abderhamane Kherbeche (2012-2015), David Benizri (2013-2016), Xiaomin Xie (2013-2017), Lixia Yang (2013-2017), Naila Bouyaed (2014-2017), Feishi Xu (2015-2019), Kritchart Wongwailikhit (2016-2019), Mei Mei (2017-2021), Gaelle Lebrun (2018-2021), Kalyani Kentheswaran (2018-2021) & Eliot Wantz (2019-2022).
- 31 Master students (2008-2020)

5 International PhD students hosted in the laboratory for collaborations: Aldo Padilla (2012 – 3 months - Chile), David Mikaelian (2012 – 1 month – Belgium), Ly Tran (2013 – 5 months – Vietnam), Aida Ahmia Cherifa (2016 – 8 months - Algeria), Alexandra Buess (2018 – 1 month, Belgium)
 5 Post-doctoral & research engineers: Jessica François (2010-2011), Benjamin Boulbène (2012), Loic Letner (2014), Francisco Felis (2017-2018) & Abdheramane Kherbeche (2018)

- **TEACHING ACTIVITIES [~ 2000 hours – 8 pedagogical publication in education]**

2009 – today Associate professor, INSA Toulouse, France, 250 hours/year: Heat and mass transfer, fluid mechanics, unit operation, chemical engineering design, absorption, separation, etc.

- **FELLOWSHIPS and GRANTS [€3M/€1M AS PRINCIPAL INVESTIGATOR OVER 5 YEARS]**

2019 – 2020 CNRS – FERMaT funding for a post-doc position (€50k) – co-Principal Investigator
 2019 – 2023 ADEME Research grant “EPUROGAZ” (€350k) – Partner
 2018 – 2021 ANR Young Researcher grant “MAMOTHS” (€205k) – Principal Investigator
 2018 – 2021 Toulouse University APR funding “MEGALITE” (€110k) – Principal Investigator
 2017 – 2021 Industrial collaboration with SUEZ company (€75k) – co-Principal Investigator
 2017 – 2021 Scientific Chinese Scholarship Council funding for a PhD (€100k) – Principal Investigator
 2014 – 2015 Toulouse Tech Interlab funding (€15k) – Partner
 2014 – 2015 French-Korean funding “STAR” (€15k) – Partner
 2014 – 2018 French ministry funding for a PhD (€100k) – co-Principal Investigator
 2015 – 2019 Scientific Chinese Scholarship Council funding for a PhD (€100k) – Principal Investigator
 2014 – 2015 Industrial collaboration with OVERLAB company (€30k) – co-Principal Investigator
 2013 – 2014 CNRS – FERMaT funding for a post-doc position (€50k) – co-Principal Investigator
 2013 – 2016 ADEME funding for a PhD (€150k) – Partner
 2013 – 2017 Scientific Chinese Scholarship Council funding for a PhD (€100k) – Principal Investigator
 2011 – 2014 Industrial collaboration with SUEZ company (€75k) – co-Principal Investigator
 2010 – 2012 Technology transfer funding (€20k) – co-Principal Investigator
 2010 – 2013 French ministry funding for a PhD (€100k) – co-Principal Investigator
 2009 – 2012 ANR grant “O₂ Star” (650 k€) – Partner

- **REVIEWING AND REPRESENTATIVES ACTIVITIES**

2018 – 2022 Elected member of the Scientific Board, INSA Toulouse, France
 2018 Scientific Evaluator for the “Toulouse University - APR PhD” funding programme, France
 2018 Scientific Evaluator for the “MITACS Accelerate research proposal”, Canada
 2016 – 2018 Member of the Scientific Board, Research federation FERMaT, France
 2015 Scientific Evaluator for the MITACS Accelerate research proposal, Canada
 2015 – 2021 Elected member of the recruitment committee of the Chemical Engineering Department Board, INSA Toulouse, France
 2014 – 2018 Elected member of the University Board, INSA Toulouse, France
 2014 – 2018 Member of the Disciplinary Board, INSA Toulouse, France
 2014 – 2018 Member of the Financial Board, INSA Toulouse, France
 2012 – 2016 Elected member of the Chemical Engineering Department Board, INSA Toulouse, France
 2012 – 2013 Member of the selection committee, INSA Toulouse and INPT Toulouse, France
 2010 – today Reviewer for over 10 different “Chemical Engineering” journals and conferences (15/year)

- **MEMBERSHIPS OF SCIENTIFIC SOCIETIES**

French Laser Velocimetry Association - Association Francophone de Vélométrie Laser (A.F.V.L.)
 French Institute of Chemical Engineering - Société Française de Génie des Procédés (S.F.G.P.)

- **ORGANISATION OF SCIENTIFIC MEETINGS**

2019 Review committee member for the 17th congress of Société Française de Génie des Procédés (SFGP), Nantes, October 2019
 2018 Co-Chair of the French-German workshop on “Non-Invasive Measuring Tools and Numerical Methods for the Investigation of Non-Reactive and Reactive Gas-Liquid Flows”, Hamburg, June 2018
 2018 Session Chairman of 19th International Symposium on Applications of Laser and Imaging Techniques to Fluid Mechanics, Lisbon, Portugal, July 2018
 2013 Review committee member for the 15th congress of Société Française de Génie des Procédés (SFGP), Lyon, October 2013
 2011 Session Chairman of the 11th International Conference on Gas-Liquid and Gas-Liquid-Solid Reactor Engineering (GLS-14), Braga, Portugal, June 2011