Pierre Josse, Ph.D.

SKILLS

Theoretical	▪ Fully trained in organic chemistry, including organic chemistry basic functions and mechanisms, as well as the usual characterization techniques. ▪ Organic synthesis, organometallics, heterocyclic chemistry, polymer chemistry. ▪ Basics optics and physics. ▪ Highly developed analytical and problem-solving skills.
Practical	▪ Design of robust synthetic routes and reactions troubleshooting, for the synthesis of organic dyes. ▪ Very familiar with neutral atmosphere reactions (Schlenk techniques and glove box).
Analytical	▪ Good knowledge of separation techniques such as column chromatography and size exclusion chromatography. ▪ Good knowledge of spectroscopic techniques such as ^{1}H and ^{13}C NMR, UV-visible, fluorescence, FTIR. ▪ Good knowledge of polymer analysis (SEC, TGA, DSC). ▪ Routine use of scientific softwares such as SciFinder, Chemdraw, Microsoft Office. ▪ Trained in devices preparation (organic solar cells)
Teaching	▪ Teaching Assistant (undergraduate students), 2015-2016, Topic: General chemistry, theoretical and practical, University of Angers (64 hrs) ▪ Supervision of a trainee students (Master), 2017, University of Angers (6 months) ▪ Supervision of three trainee students (Undergraduate and Master), 2019, University of Ottawa (6 months) ▪ Supervision of three PhD students, 2022, University of Angers (1 year)
Personal	▪ Excellent interpersonal skills and good organizational capabilities. ▪ Able to work on own initiative and as part as a team. ▪ French native speaker, fluent in English.

EXPERIENCES AND PLACEMENTS

January 1st 2024-current		Post-doctoral researcher, IBS Center for Quantum Nanoscience, Ewha Womans University, Seoul, South Korea
September 13th 2022-December 31st 2023	1.25 year	CNRS Post-doctoral Fellowship between the University of Angers, MOLTECH-Anjou laboratory, France and IRL 2BFUEL at Yonsei University, Seoul, South Korea
September 13th 2021-September 12th 2022	1 year	Post-doctoral Fellowship at the University of Angers, MOLTECH-Anjou laboratory, France. **AZA-BTX - N-annulation of benzothioxanthene derivatives: Synthesis, characterization and use for organic electronics**
March 5th 2019 – March 4th 2020	1 year	Post-doctoral Fellowship at the University of Ottawa, Lessard Research Group, Canada. **Development of new materials for organic electronics applications**
2015-2018	3 years	Ph.D. student at MOLTECH-Anjou laboratory, University of Angers, France. **Dye-based materials for organic photovoltaics**
2015	6 months	Master 2 (M.Sc+1) trainee at MOLTECH-Anjou laboratory, University of Angers, France. **Synthesis and characterizations of new non-fullerene acceptors for organic solar cells**

EDUCATION

2015-2018	**Ph.D. in Organic Chemistry** under the supervision of Dr. Jean RONCALI, Dr. Philippe BLANCHARD and Dr. Clément CABANETOS, University of Angers, France.
2013-2015	**Master degree M.Sc.,** graduated with distinction, « Chimie fine, Matériaux fonctionnels et Nanosciences », University of Angers, France
2010-2013	**Bachelor's degree (B.Sc.),** « Chimie et Médicaments », University of Angers, France.