NONO TAGNE Steve

ANALYTICAL R&D SCIENTIST

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Rue Irvoy, Grenoble, France

Polymer and Analytical Scientist with expertise in chromatography, polymer synthesis, and physicochemical characterization. 4+ years of research experience at CERMAV-CNRS dedicated to the development and analysis of innovative polymeric materials and functional polysaccharide-based systems.

TECHNICAL EXPERTISE

Analytical Qualification and Validation

- Qualification and validation of analytical methods
- Development and optimization of analytical methods
- Preparation of technical specifications and comparative experimental plans (DoE)
- Interpretation of complex analytical data

Project and Collaboration

- Coordination of multidisciplinary research activities
- Scientific reporting and communication
- Collaboration with academic partners and external collaborators
- Adaptability in fast-paced research environments

Advanced Characterization

- Chromatography: HPLC, GC, SEC, LC-MS
- Spectroscopy: FTIR, NMR
- Microscopy: SEM, AFM, TEM
- Thermal analysis: DSC, TGA

Experimental Workflow and Data

- Experimental design
- Reproducible workflows
- Data analysis (Python/MATLAB, Origin)
- Structured experimental records
- Materials evaluation
- Pack Office (Word, PowerPoint)

LANGUAGES

ENGLISH	Native
FRENCH	Fluent
ITALIAN	Fluent

PROFESSIONAL EXPERIENCE

Research Engineer — **Nov.2024–Janv. 2026 (15 mois)**
CNRS-CERMAV-Grenoble, FRANCE

- Development, optimization, and validation of analytical methods (HPLC, GC, SEC/GPC) for bio-based and synthetic polymers
- Routine physicochemical analysis of monomers and polymers
- Sample preparation and analytical characterization within an inert environment
- Critical analysis and interpretation of experimental data with structured documentation, reliability, and traceability
- Autonomous management of research projects

PhD in Polymer Science — **Sept.2021–Oct. 2024 (36 mois)**
CNRS-CERMAV-Grenoble, FRANCE

- Development and optimization of analytical conditions for polymer characterization
- Design and fabrication of nanostructured cellulose carbamate membranes via electrospinning
- Optimization of polymer formulations and processing parameters for advanced materials fabrication
- Processing and interpretation of complex datasets
- Writing of scientific publications and technical reports
- Ensuring reliability, reproducibility, and traceability of analytical and experimental data

FORMATIONS

PH.D. IN POLYMER SCIENCE
University Grenoble Alpes, Grenoble (FRANCE)

MASTER IN POLYMERS FOR ADVANCED TECHNOLOGIES
University Grenoble Alpes, Grenoble (FRANCE)

BACHELOR DEGREE IN CHEMISTRY
University of Trieste, Trieste (ITALY)

LABORATORY ACTIVITIES

- Coordination of experimental research activities
- Equipment usage and laboratory organization
- Experimental planning and prioritization

Peer-reviewed publications in scientific journals

1. Nono-Tagne, S.; Heinze, T.; Gericke, M.; Otsuka, I. Electrospinning of Cellulose Benzyl Carbamates for Enantioselective Membrane Filtration. *Macromolecular Bioscience*, **2025**, *25(3),* p. 2400415. https://doi.org/10.1002/mabi.202400415.
2. Nono-Tagne, S.; Navon, Y.; Ogawa, Y.; Carré, B.; Otsuka, I. Enantioselective Membranes Prepared by Electrospinning of Cellulose Tris(3,5-Dimethylphenyl Carbamate) Having Various Degrees of Polymerization: Effect of the DP on the Morphology. *Cellulose*, **2024**, *31*, 2765. https://doi.org/10.1007/s10570-023-05644-4.
3. Poshina, D., Sokolova, N., Nono-Tagne, S., Ahmadi-Nohadani, H., Gofman, I., Mishanin, A., Golovkin, A., Skorik, Y., and Otsuka, I. Electrospinning of methacrylated alginate for tissue engineering applications. *RSC advances,* **2024,** *14(52)*, p.38746. https://doi-org.sid2nomade-1.grenet.fr/10.1039/D4RA07559E)
4. Ahmadi-Nohadani, H.; Nono-Tagne, S.; Barrett, C. J.; Otsuka, I. Electrospun Azo-Cellulose Fabric: A Smart Polysaccharidic Photo-Actuator. *Macromolecular Rapid Communications* **2022**, *43 (9)*, 2200063. https://doi.org/10.1002/marc.202200063 .
5. Otsuka, I.; Pandey, K.; Ahmadi-Nohadani, H.; Nono-Tagne, S. Electrospun Cellulosic Membranes toward Efficient Chiral Resolutions via Enantioselective Permeation. *ACS Macro Lett*. **2021**, *10(7),* 921. https://doi.org/10.1021/acsmacrolett.1c00349.

Peer-reviewed conference proceedings (presenter is underlined)

I. Nono-Tagne S.; Fischer M.; and Otsuka I. "Electrospinning of Cellulose tris(3,5-dimethylphenyl carbamate)s for Efficient Chiral Resolutions via Enantioselective Membrane Filtrations" Oral communication at EuroMembrane, from 8 to 12 September 2024, Prague, Czech Republic.

II. Nono-Tagne S.; Narumi A.; Otsuka I.; and Kakuchi R. "Multi-Component Modification of Polysaccharides" Poster communication at the 6th North Kanto Area Lecture, 09 March 2023, Gunma University, Japan.

III. Nono-Tagne S.; Pandey, K.; Ahmadi-Nohadani, H.; Otsuka, I. "Electrospun Polysaccharidic Textiles: Toward Enantioselective Membrane Filtrations" Poster communication at the Journée des Doctorants École doctorale Chimie, Science du Vivant (EDCSV) 23 June 2022, Grenoble, France.

IV. Nono-Tagne, S.; Pandey, K.; Ahmadi-Nohadani, H.; Otsuka, I. "Electrospun Polysaccharidic Textiles: Toward Enantioselective Membrane Filtrations" Poster communication at the Journées de printemps 2022 du GDR DUMBIO 11-13 May 2022, Grenoble, France.