

# Jennifer Morvan

24/11/1995 (26 years old)

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## Professional experience

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- 01/2022 – 07/2022 → **Post-doctorate** | Ecole Nationale Supérieure de Chimie (ENSC) – Rennes (35) | Supervisors : Dr Marc Mauduit et Dr Yann Trolez
- ▶ Synthesis of polyynes via alkyne metathesis
- 02/2018 – 12/2021 → **PhD student** | ENSC – Rennes (35) | Supervisors: Dr Marc Mauduit et Dr Christophe Crévisy
- ▶ Henri Kagan PhD price from DCO-SCF 2022 laureate.
  - ▶ Design of highly stereoselective ruthenium based complexes for olefin metathesis.
- 04 – 07/2017 → **Internship** | Organic Chemistry Department, Stockholm Universitet (Sweden) | Supervisors: Dr Eric V. Johnston et Dr Peter Olsén
- ▶ Peptide and organic chemistry synthesis, study of new protecting group (synthesis, stability and cleavage).

## Education background

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- 12/2021 → **Thesis in organic chemistry** | Ecole Nationale Supérieure de Chimie (ENSC) – Rennes (35) | Supervisors : Dr Marc Mauduit et Dr Christophe Crévisy
- 09/2018 → **Double master & engineering degree in chemistry – Speciality Chemistry and living Technologies** | ENSCR (35)

## Selected publications

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- Publications ▶ [J. Morvan](#), T. McBride, I. Curbet, S. Colombel-Rouen, T. Roisnel, C. Crévisy, D. L. Browne, M. Mauduit, “Continuous Flow Z-Stereoselective Olefin Metathesis: Development and Applications in the Synthesis of Pheromones and Macrocyclic Odorant Molecules” *Angew. Chem. Int. Ed.* **2021**, *133*, 19837–19842.
- ▶ [J. Morvan](#), F. Vermersch, Z. Zhang, L. Falivene, T. Vives, V. Dorcet, T. Roisnel, C. Crévisy, L. Cavallo, N. Vanthuyne, G. Bertrand, R. Jazzar, M. Mauduit, “Optically Pure C1-Symmetric Cyclic(alkyl)(amino)carbene Ruthenium Complexes for Asymmetric Olefin Metathesis” *J. Am. Chem. Soc.* **2020**, *142*, 19895–19901.
- ▶ L. Kong, [J. Morvan](#), D. Pichon, M. Jean, M. Albalat, T. Vives, S. Colombel-Rouen, M. Giorgi, V. Dorcet, T. Roisnel, C. Crévisy, D. Nuel, P. Nava, S. Humbel, N. Vanthuyne, M. Mauduit, H. Clavier, “From Prochiral N-Heterocyclic Carbenes to Optically Pure Metal Complexes: New Opportunities in Asymmetric Catalysis” *J. Am. Chem. Soc.* **2020**, *142*, 93–98.
- ▶ D. Pichon, M. Soleilhavoup, [J. Morvan](#), G. P. Junor, T. Vives, C. Crévisy, V. Lavallo, J. M. Campagne, M. Mauduit, R. Jazzar, G. Bertrand, “The debut of chiral cyclic (alkyl)(amino)carbenes (CAACs) in enantioselective catalysis” *Chem. Sci.* **2019**, *10*, 7807–7811.
- ▶ P. Olsén, [J. Morvan](#), S. Sawadjoon, A. Shatskiy, E. V. Johnston, B. Åkermark, “Cyclic allylic carbonates as a renewable platform for protecting chemistry in water” *Green Chem.* **2018**, *20*, 3186–3190.
- ▶ I. Curbet, [J. Morvan](#), S. Colombel-Rouen, T. Roisnel, C. Crévisy, M. Mauduit, “Design of bis-NHC Ru-complexes featuring diarylmethylene N-substituents for olefin metathesis” *Arkivoc* **2019**, *2019*, 102–112.
- Reviews ▶ [J. Morvan](#), M. Mauduit, G. Bertrand, R. Jazzar, “Cyclic (Alkyl)(amino)carbenes (CAACs) in Ruthenium Olefin Metathesis” *ACS Catal.* **2021**, *11*, 1714–1748.
- ▶ D. Pichon, [J. Morvan](#), C. Crévisy, M. Mauduit, “Copper-catalyzed enantioselective conjugate addition of organometallic reagents to challenging Michael acceptors.” *Beilstein J. Org. Chem.* **2020**, *16*, 212–232.
- Patents ▶ Co-inventor of 4 patents.