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EMPLOYMENT HISTORY

- 04/2024 – present** **University of Warwick**, Associate Professor
Coordinator of International Placements and Research Partnerships
- 04/2020 – 04/2024** **University of Warwick**, Assistant Professor
- 04/2015 – 04/2020** **University of St Andrews**, Post-Doctoral Research Associate
Supervisor: Prof. Andrew D. Smith
Research: Development of Enantioselective Organocatalytic Methodologies

EDUCATION

- 09/2010 – 02/2015** **University of Bristol & University of Edinburgh**, PhD in Organic Chemistry
Supervisor: Dr Stephen P. Thomas
Title: Iron-Catalysed Hydrofunctionalisation of Alkenes and Alkynes
- 09/2006 – 06/2010** **University of Sheffield**, MChem (Hons), 1st Class (1st in year of 100 graduates)
Final year project with Dr Simon Jones (*Development of a New Chiral Auxiliary*)
Penultimate year studying at the University of Wollongong, Australia
Research projects with Dr Michael J. Kelso and Prof. Marc in het Panhuis

Publications (45 papers/book chapters; 2344 citations; h-index = 23)

Dr Mark D Greenhalgh

Selected publications from past 5 years:

“Ruthenium-Catalyzed Azide-Selenoalkyne Cycloadditions: A Combined Synthetic–Computational Study into Reaction Scope, Mechanism, and Origins of Regioselectivity”. F. E. Bugden, A. D. Bage, A. Bajaj, B. Wang, F. J. Gibson, H. Stone, Y. Xu, F. De Proft, M. Alonso, M. D. Greenhalgh, [Adv. Synth. Catal. 2025, 367, e70096](#).

“In-Cage Recombination Facilitates the Enantioselective Organocatalytic [1,2]-Rearrangement of Allylic Ammonium Ylides” W. C. Hartley, K. Kasten, M. D. Greenhalgh, T. Feoktistova, H. B. Wise, J. M. Laddusaw, A. B. Frost, S. Ng, A. M. Z. Slawin, B. E. Bode, P. H.-Y. Cheong, A. D. Smith, [J. Am. Chem. Soc. 2025, 147, 1101–1111](#).

“Lithiation-Functionalisation of Triazoles Bearing Electron-Withdrawing N-Substituents: Challenges and Solutions”. F. E. Bugden, G. J. Clarkson, M. D. Greenhalgh, [Eur. J. Org. Chem. 2023, 26, e202201459](#).

“Scope, Limitations and Mechanistic Analysis of the HyperBTM-Catalyzed Acylative Kinetic Resolution of Tertiary Heterocyclic Alcohols” S. M. Smith, M. D. Greenhalgh, T. Feoktistova, D. M. Walden, J. E. Taylor, D. B. Cordes, A. M. Z. Slawin, P. H.-Y. Cheong, A. D. Smith, [Eur. J. Org. Chem. 2022, e202101111](#).

“Horeau Amplification in the Sequential Acylative Kinetic Resolution of (±)-1,2-Diols and (±)-1,3-Diols in Flow” A. Brandolese, M. D. Greenhalgh, T. Desrues, X. Liu, S. Qu, C. Bressy, A. D. Smith, [Org. Biomol. Chem. 2021, 19, 3620–3627](#).

“TMEDA in Iron-Catalyzed Hydromagnesiation: Formation of Iron(II)-Alkyl Species for Controlled Reduction to Alkene-Stabilized Iron(0)” P. G. N. Neate, M. D. Greenhalgh, W. W. Brennessel, S. P. Thomas, M. L. Neidig, [Angew. Chem. Int. Ed., 2020, 59, 17070–17076](#).

“Isothiourea-Catalyzed Acylative Kinetic Resolution of Tertiary α-Hydroxy Esters” S. Qu, S. M. Smith, V. Laina-Martín, R. M. Neyyappadath, M. D. Greenhalgh, A. D. Smith, [Angew. Chem. Int. Ed., 2020, 59, 16572–16578](#).