Education

_	Massachusetts Institute of Technology — Postdoctoral associate	Oct. 2015 - present
_	University of Edinburgh, UK – Postdoctoral associate	Mar. – Sept. 2015
_	University of Edinburgh, UK – PhD, Neuroscience	2010 - 2015
_	University of Bristol, UK - BSc. Neuroscience	2007 - 2010
_	University of Central Lancashire, Preston, UK - BSc. Computer Science	2006 – 2007

Grants & Awards

- PhD Scholarship, 4 years, funded by the BBSRC (Biotechnology and Biological Science Research Council) – University of Edinburgh
- Prize for best poster in the category Systems Neuroscience Edinburgh Neuroscience Day
 2014
- Neuroresearchers Fund Training Grant
- Wellcome Trust stipend for Summer Placement University College London

Skill and Techniques

- Laboratory Techniques: quantitative behavioural data analysis; 2-photon calcium imaging, behavioural training of mice; tetrode and patch clamp data analysis; in vivo electrophysiology, in vitro extracellular recordings; perfusion; histology
- Technical Skills: Data analysis in Matlab, Python (SciPy, scikit-learn, statsmodels), R, Arduino, mbed, C/C++, Java; Electronic circuit design; 3D modelling in Autodesk® Inventor®

Teaching and related Experience

- Problem based learning sessions for medical students, University of Edinburgh
- Supervised multiple masters, undergraduate and summer students.
- Ran postgraduate seminar series (2 years).
- Representative for postgraduate students in my department.

Publications

- Fischer, L., Mojica Soto-Albors, R., Buck, F., & Harnett, M. T. (2020). Representation of visual landmarks in retrosplenial cortex. ELife, 9, 811430. https://doi.org/10.7554/eLife.51458
- Pakan, J. M. P.*, Currie, S. P.*, Fischer, L.*, Rochefort, N. L. (2018). The Impact of Visual Cues, Reward, and Motor Feedback on the Representation of Behaviorally Relevant Spatial Locations in Primary Visual Cortex. Cell Reports, 24(10), 2521–2528.
- Tennant, S. A., Fischer, L., Garden, D. L. F., Gerlei, K. Z., Martinez-Gonzalez, C., McClure, C., Wood, E. R., Nolan, M. F. (2018). Stellate Cells in the Medial Entorhinal Cortex Are Required for Spatial Learning. Cell Reports, 22(5), 1313–1324

Conference Abstracts

- Fischer, L., Mojica Soto-Albors R., Harnett M. T. Integration of Visual and Motor Information in Retrosplenial Cortex. Lisbon, Portugal: Cosyne 2019.
- Fischer, L., Mojica R., Toloza E. H. S., Barnagian D., Harnett M. T. Encoding of spatial variables in retrosplenial cortex during landmark dependent navigation. San Diego, CA: Society for Neuroscience, 2018.
- Fischer L., Harnett M. T. Landmark, Path Integration, and Trial Onset Encoding in A30 of Retrosplenial Cortex. San Diego, CA: Society for Neuroscience, 2017.

Invited Talks

- Title: Development of a Virtual Reality Task to Test Path Integration in Mice, Institut de Biologie Paris-Seine, Pierre and Marie Curie University, June 2015
- Title: Development of a Virtual Reality Task to Test Path Integration in Mice, MRC Laboratory of Molecular Biology, University of Cambridge, May 2015