# Ankur Sinha

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| **CONTACT INFORMATION:** | ankursinha AT fedoraproject.org | https://ankursinha.in |
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London,
United Kingdom.

**CITIZENSHIP:** Indian

## ACADEMICS

| October 2014–current | PhD (Computational neuroscience) Homoeostatic structural plasticity | University of Hertfordshire, UK |
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| July 2012–June 2014 | ME (research) Biomimetic navigation | UTS, Sydney |
| July 2007–May 2011 | BE (GPA: 8.67) Computer Science & Engineering | Manipal University, India |

## RESEARCH

- Structural plasticity and associative memory in balanced neural networks with spike time dependent inhibitory plasticity: Ph.D. thesis.

- Experience with neuroscience simulators: Nest, Auryn. PyNN.

- Programming/environment: C/C++/Python/Bash/LaTeX/Linux.

### Publications

- Peyser, A., Sinha, A., et al. Nest 2.14.0. October 2017.

- Kunkel, S., Morrison A., et al. Nest 2.12.0. March 2017.

- Sinha, A., Metzner, C., Adams, R., Schmuker, M., Davey, N., and Steuber, V.. The effect of homeostatic structural plasticity on associative memory in a network with spike-time dependent inhibitory synaptic plasticity. *BMC Neuroscience*, 18(Suppl.1) 2017.

- Sinha, A., Davey, N., Adams, R., & Steuber, A.. Structural plasticity and associative memory in balanced neural networks with spike-time dependent inhibitory plasticity. *BMC Neuroscience*, 16(1):1 2015.

- Sinha, A., & Wang, J.. An implementation of the path integrator mechanism of head direction cells for bio-mimetic navigation. In *2014 International Joint Conference on Neural Networks (IJCNN)*, 1984–1991. IEEE, 2014.

- Sinha, A., & Wang, J.. Bio-mimetic path integration using a self organizing population of grid cells. In *International Conference on Artificial Neural Networks*, 675–682. Springer International Publishing, 2014.

**EMPLOYMENT**  **Academic**

- January 2015–current: Visiting Lecturer at University of Hertfordshire.
  - Lecturing: Advanced/Enterprise databases.
  - Tutorials/Practicals/Lab work: Artificial intelligence and machine learning, Advanced/Enterprise databases, Contemporary issues.
  - Project supervision: On campus and online undergraduate, post-graduate project modules.

**Others**

- June 2011–June 2012: Business Technology Analyst at Deloitte Consulting India Pvt. Limited.
- 2011: Google Summer of Code (Fedora project).

**VOLUNTEERING**

- Package maintainer at the Free and Open Source Software driven Fedora project.

**INTERNSHIPS**

- January 2011–June 2011: Research intern at Indian Institute of Sciences (IISc), Bangalore:
  - Acknowledged in paper selected for OOPSLA 2011.
- May 2010–July 2010: Research intern at Indian Institute of Sciences (IISc), Bangalore:
  - Acknowledged in paper selected for ESOP 2011.

**AWARDS/GRANTS**

- 2016: UH Post Graduate Researcher Conference Funding.
- 2015: UH Research Studentship.
- 2014: UTS Vice Chancellor's Conference Fund Grant.
- 2014: UTS FEIT Travel Grant.

**REFERENCES**  Available on request.