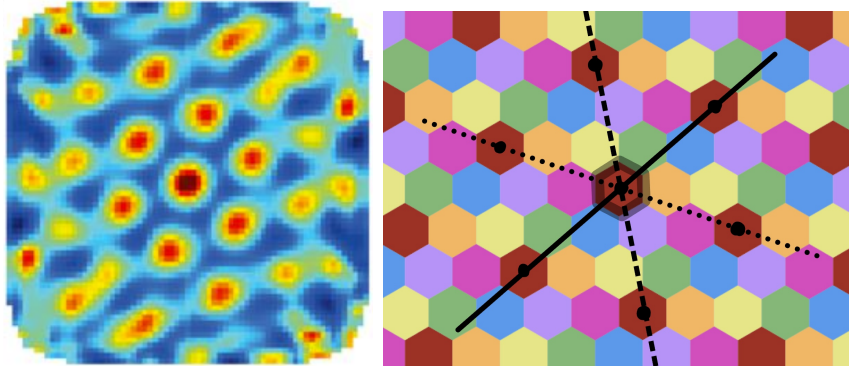


Student Research Talks (StReeTs)

George Mason University

Grid cells and their arrangements

Kelsi Listman
George Mason University



Abstract

Grid cells are a type of neuron involved in navigation; their discovery less than 25 years ago makes them an exciting new area of research, as their function and purpose are still being theorized. A significant amount of research suggests grid cells are involved in spatial trajectory encoding. A possible set of axioms for coding trajectory imply that the firing fields of grid cells form a hexagonal lattice. This talk discusses the mathematics required to count possible arrangements of grid cells in these lattices.

Date: Friday, February 13th
Time: 2:30pm–3:20pm
Place: Exploratory Hall 4106

Pizza will be served at the presentation.

For further information or for special accommodations (including dietary restrictions), please contact Kelsi Listman or Nat Fink-Humes via email at klistman@gmu.edu or nfinkhum@gmu.edu by Thursday, Feb. 12.



Figure 1: Scan me to check out our website!