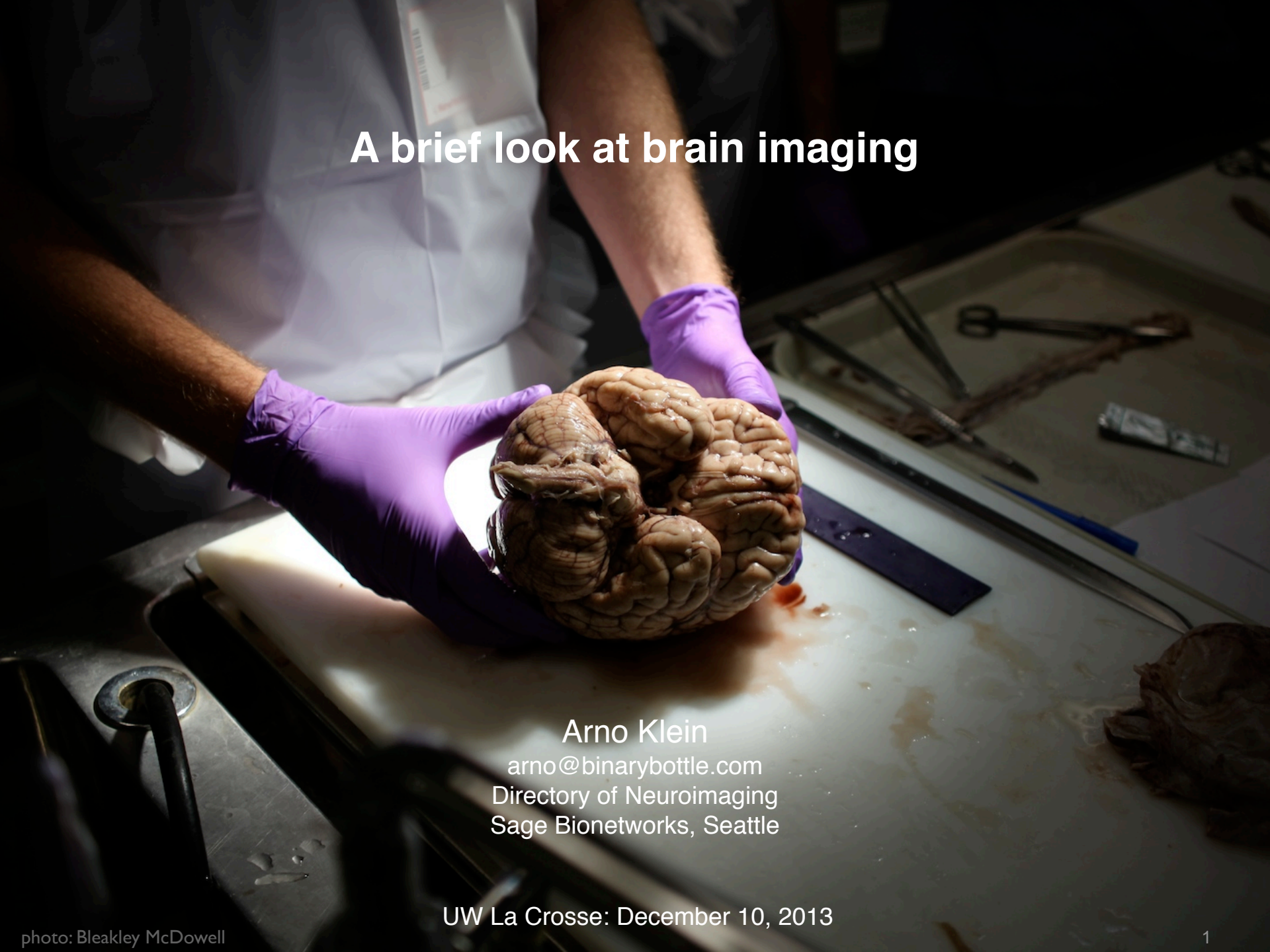
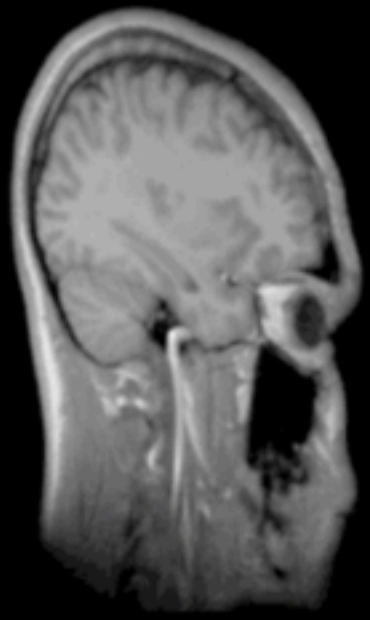
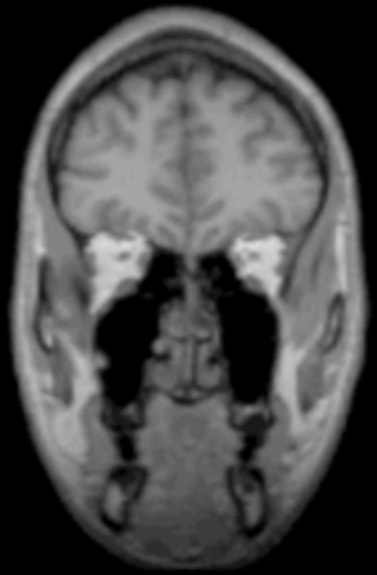
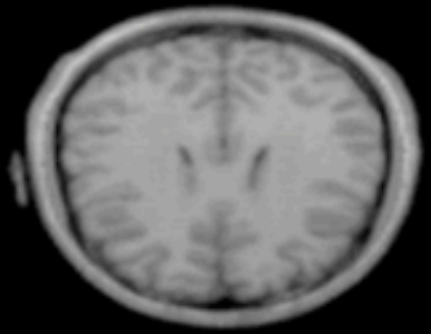
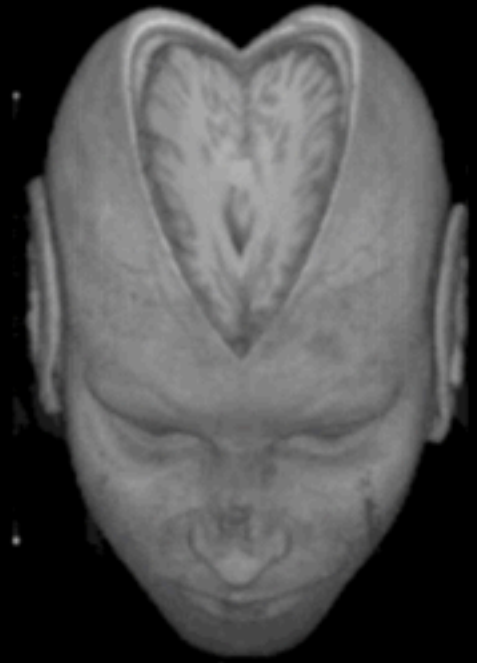
A brief look at brain imaging

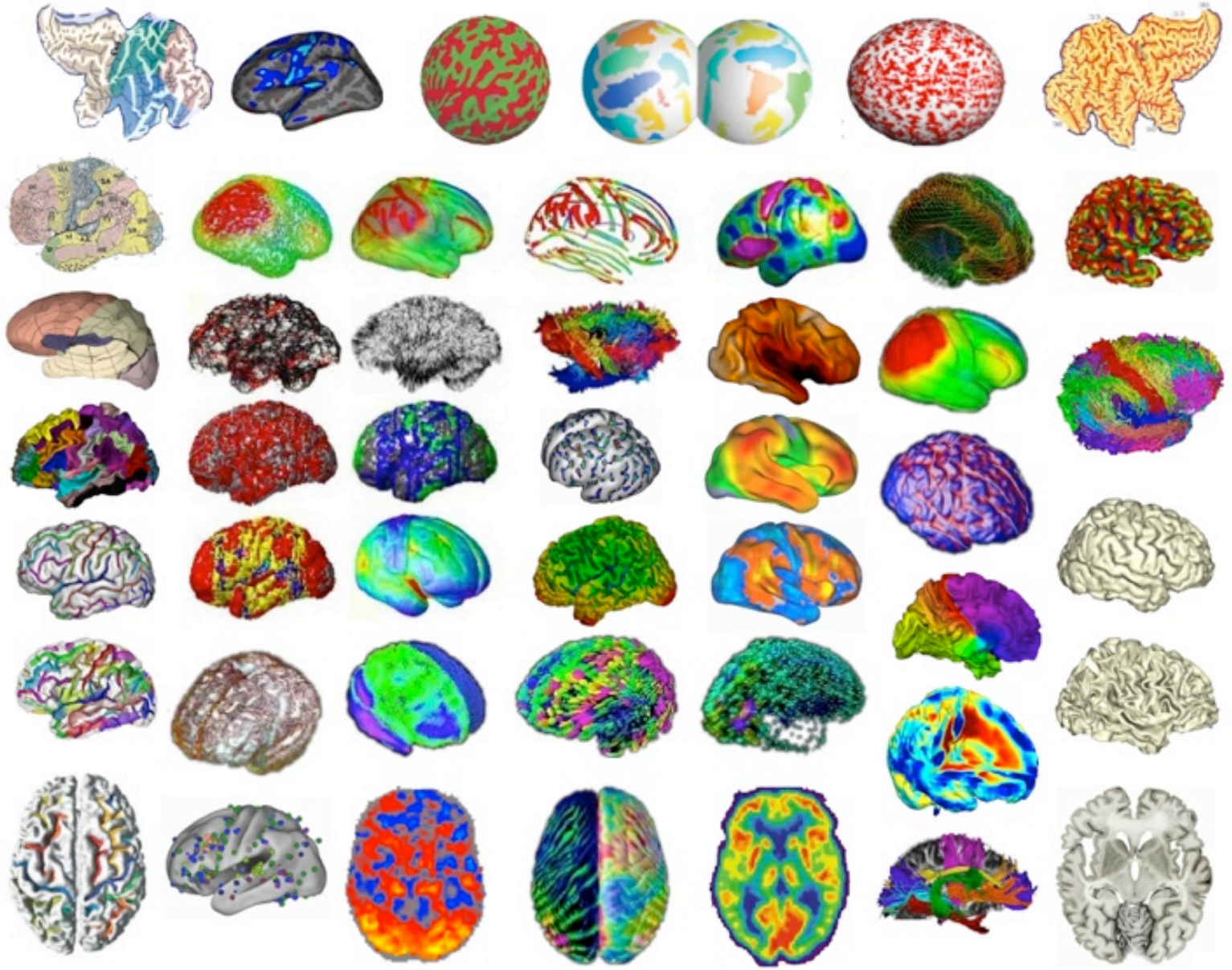


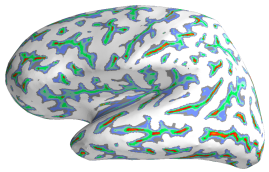
Arno Klein
arno@binarybottle.com
Directory of Neuroimaging
Sage Bionetworks, Seattle

UW La Crosse: December 10, 2013

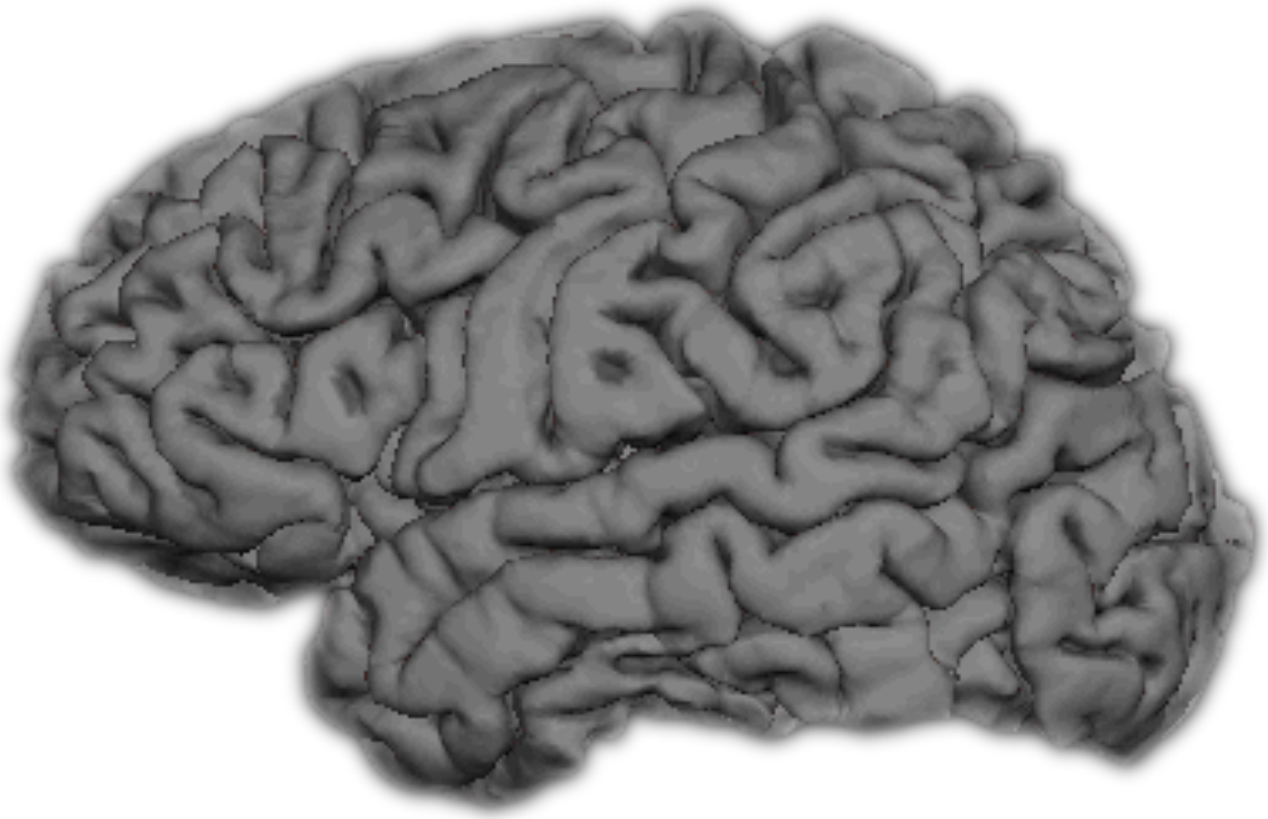
photo: Bleakley McDowell

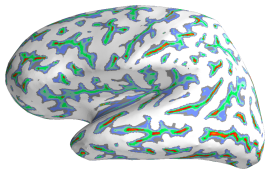







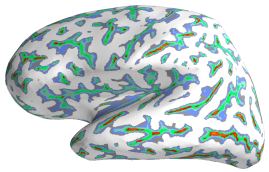


Cortical surface

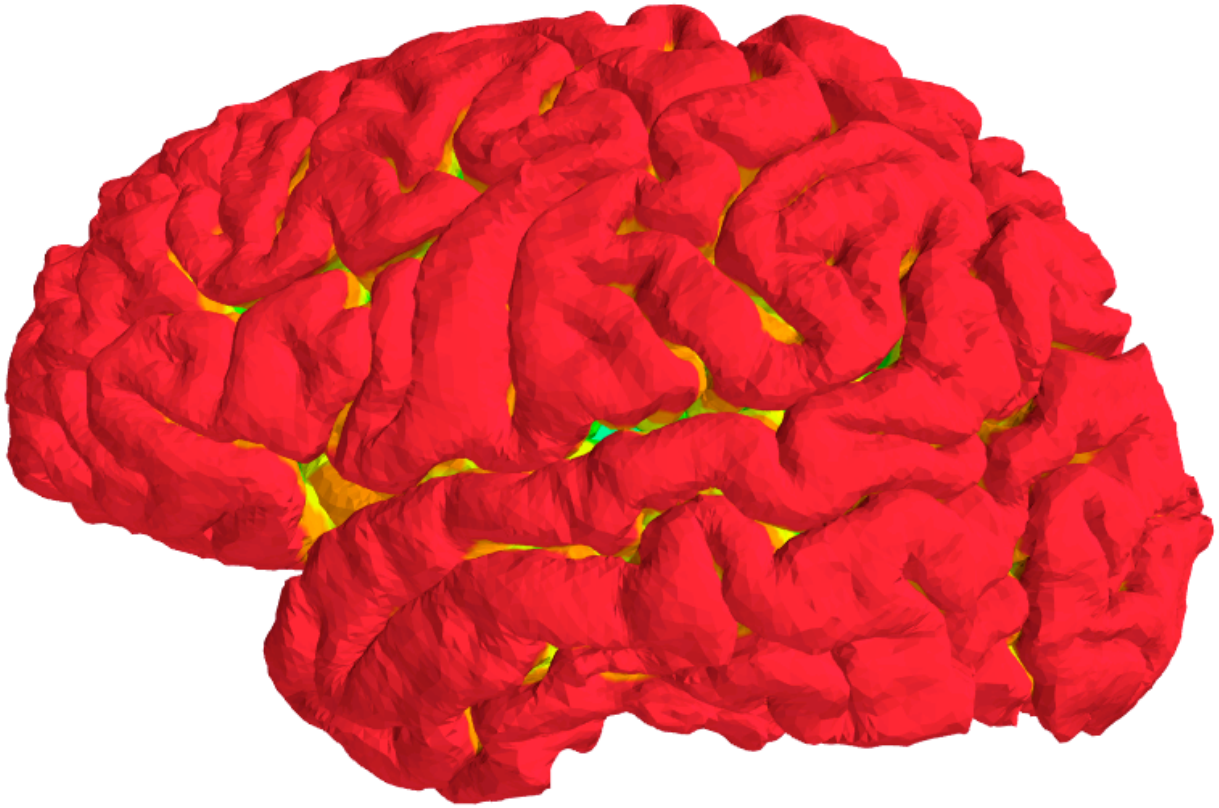


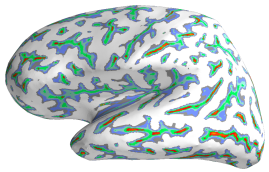


Mean curvature

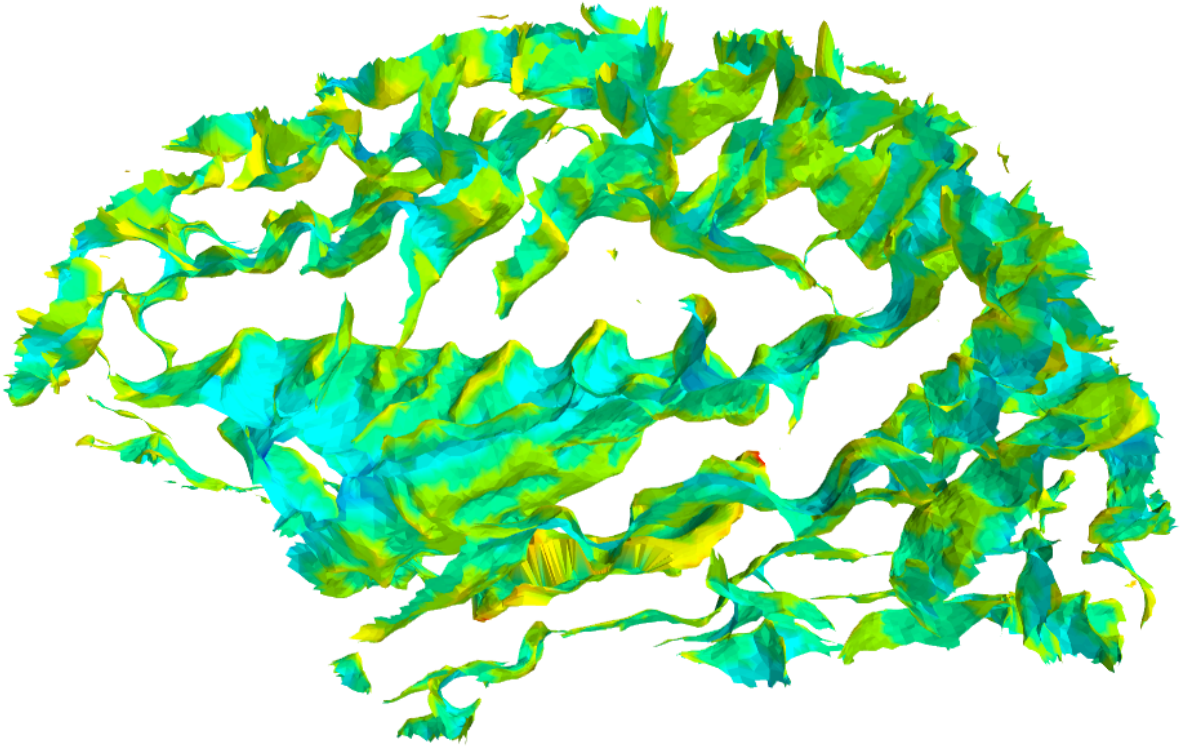


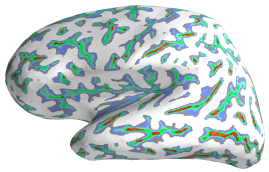
Travel depth



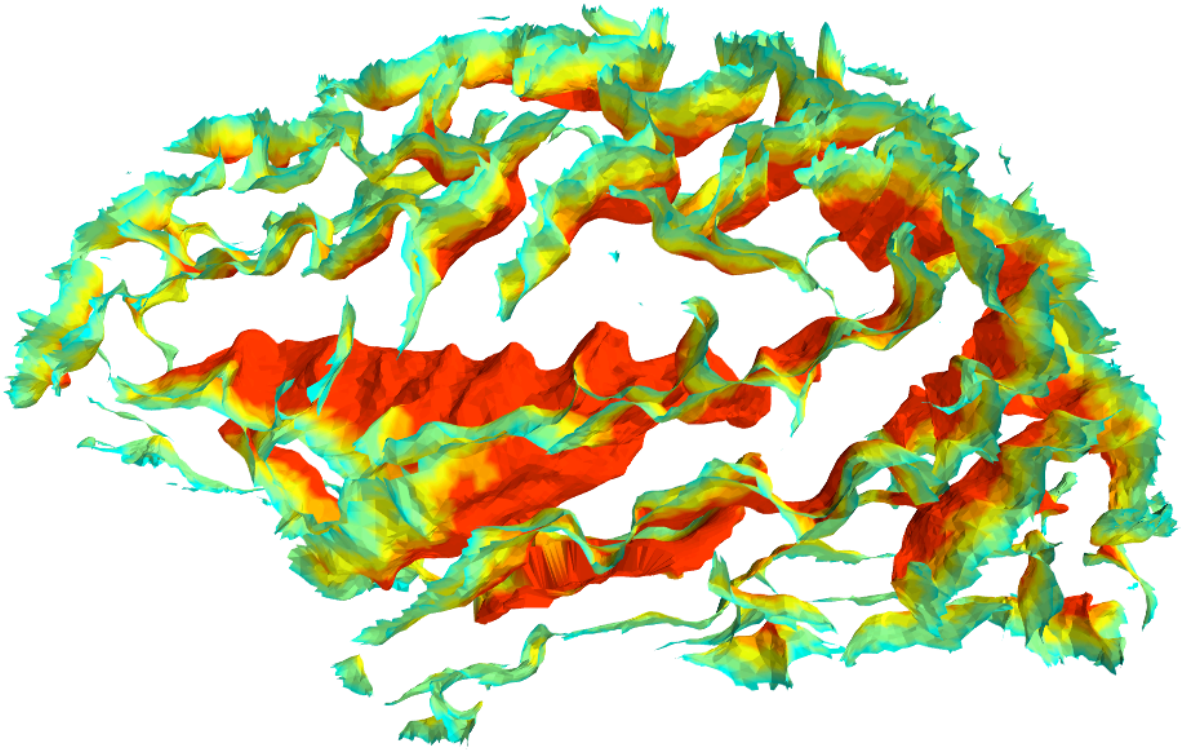


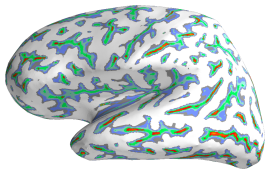
Mean curvature (folds)



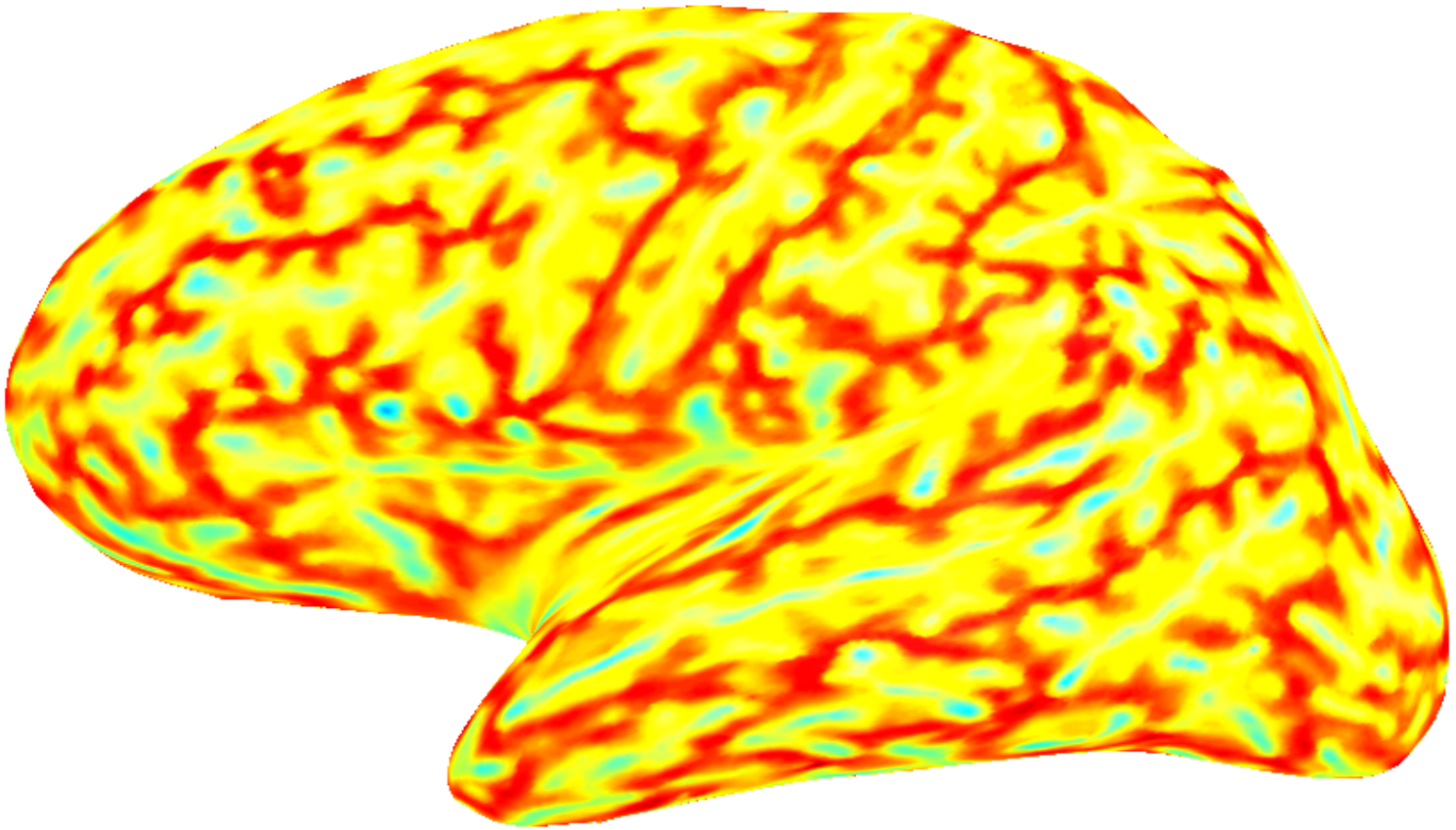


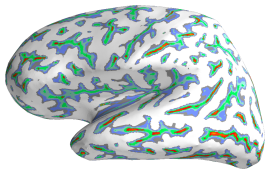
Travel depth (folds)



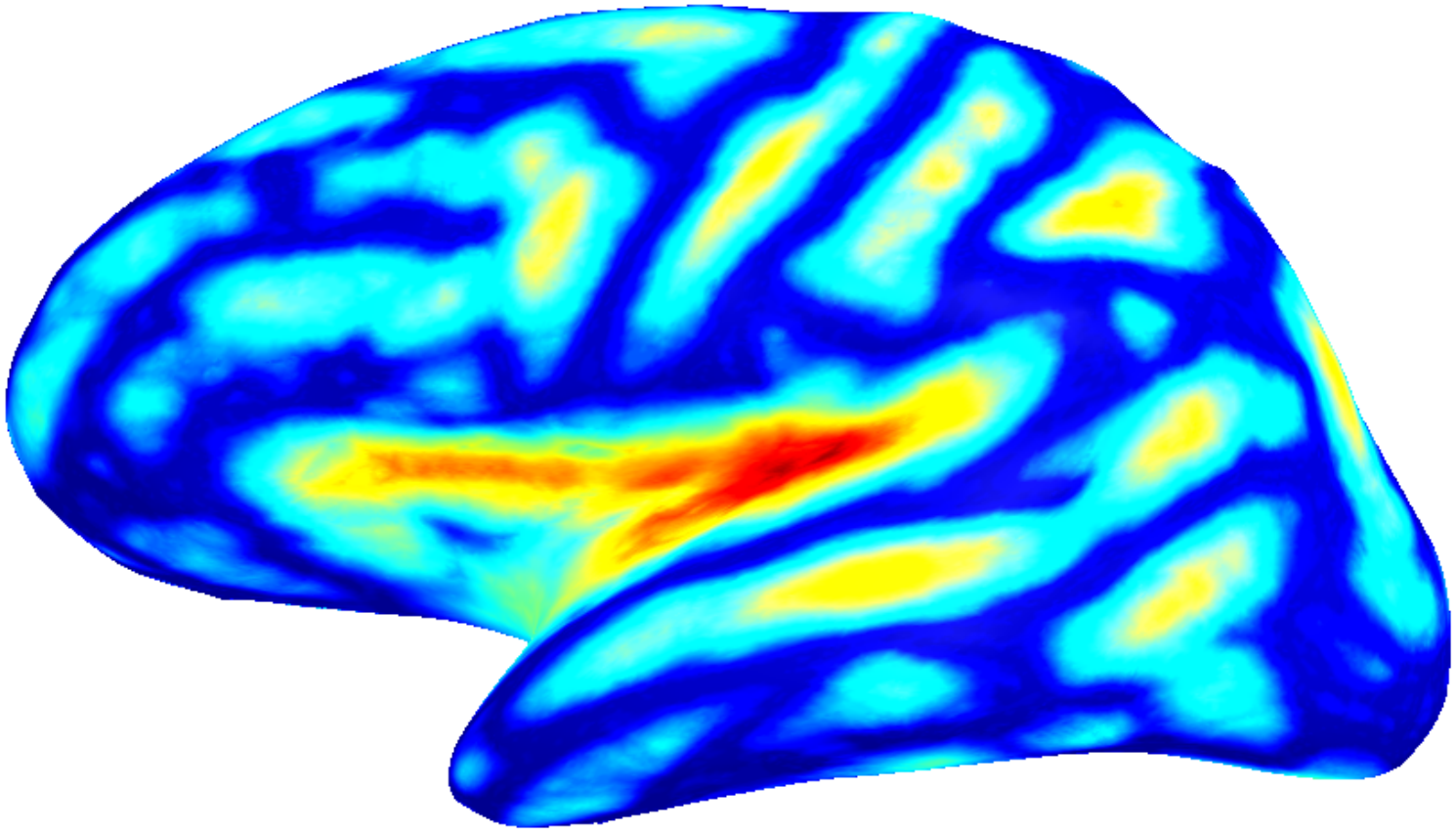


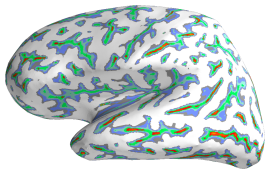
Mean curvature (inflated surface)



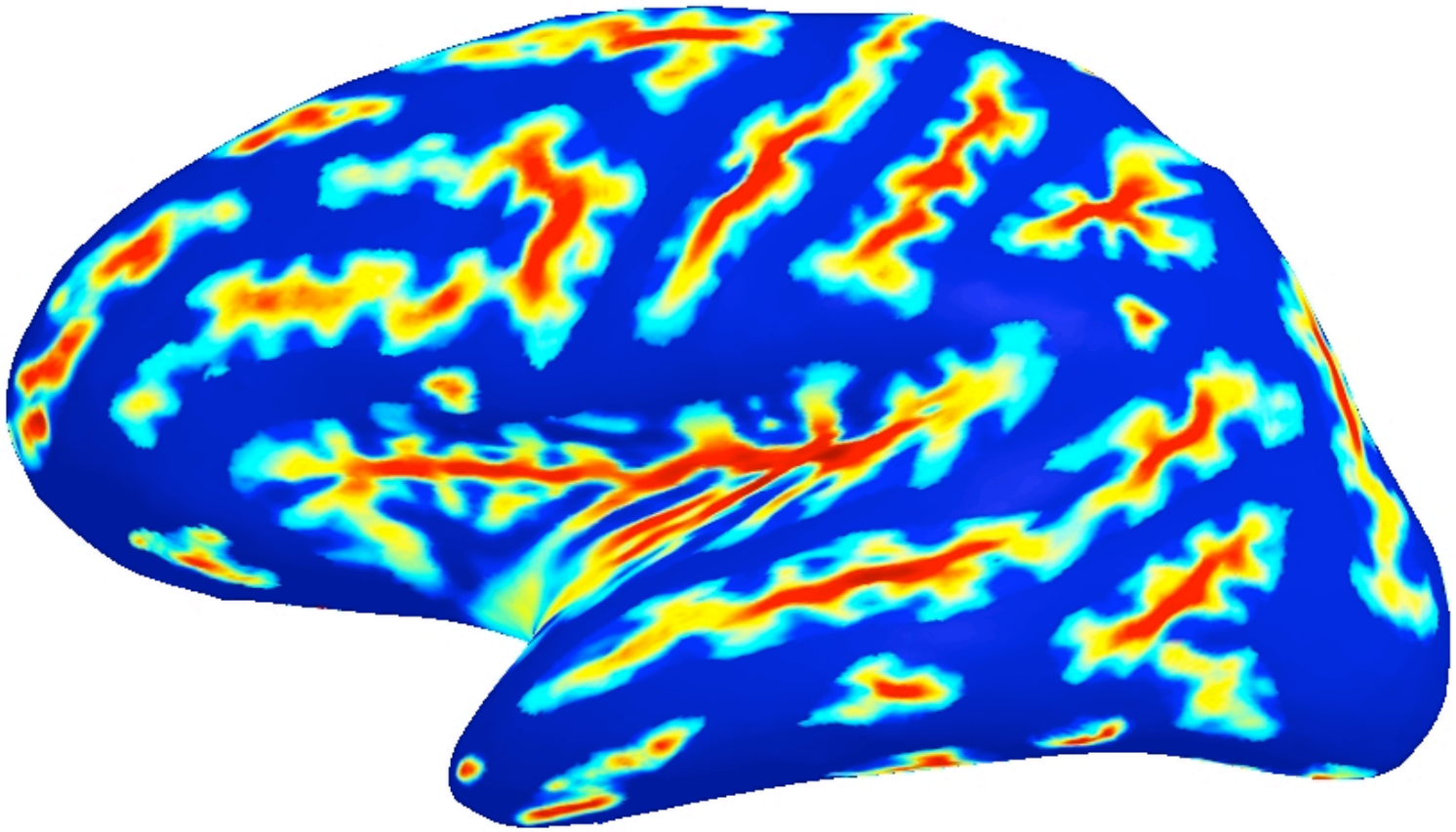


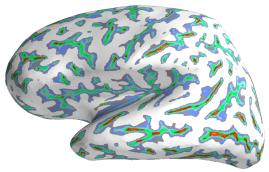
Travel depth (inflated surface)





Fundus curves





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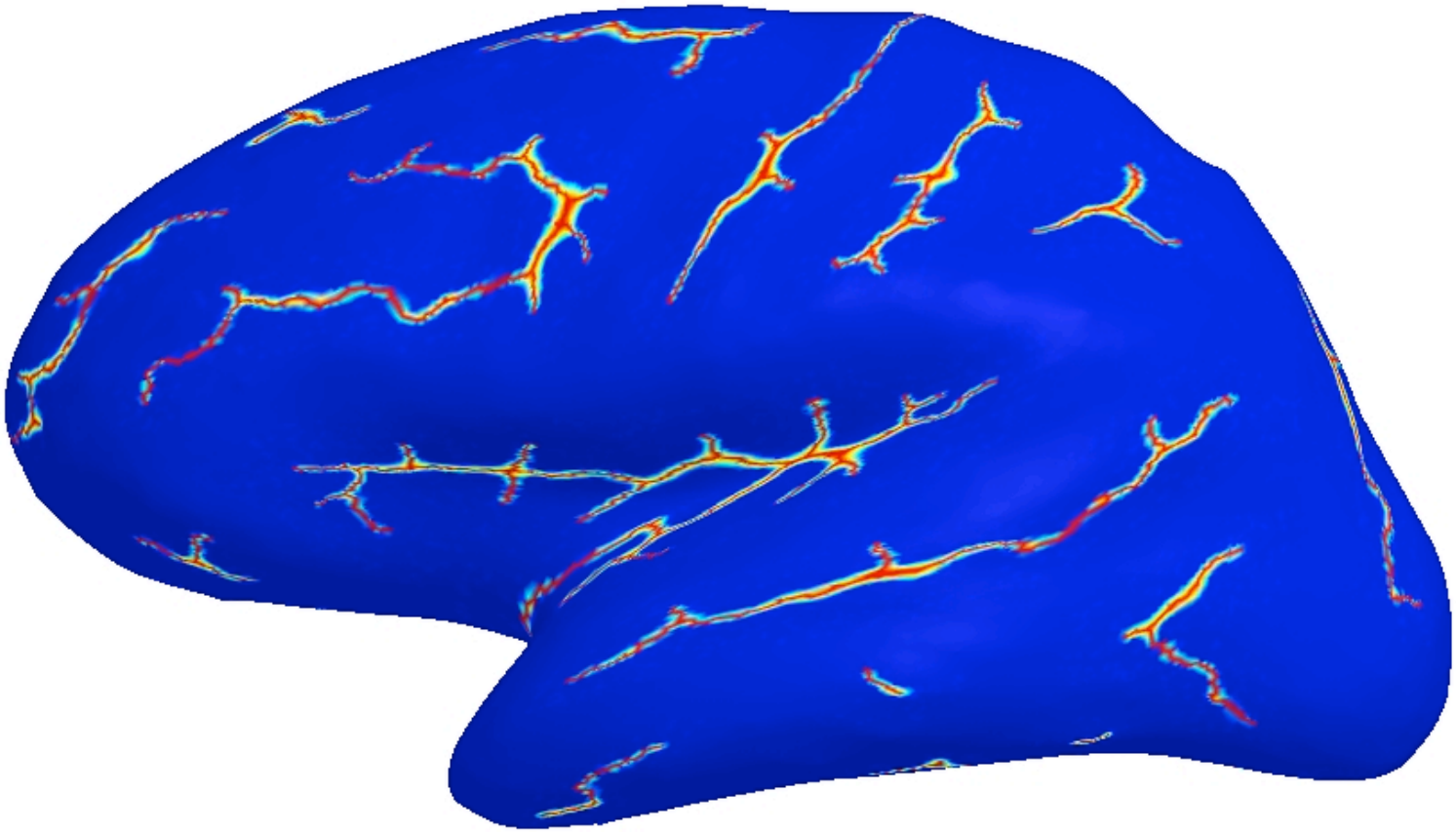
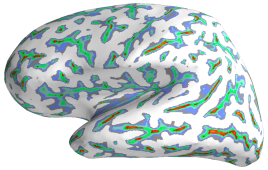
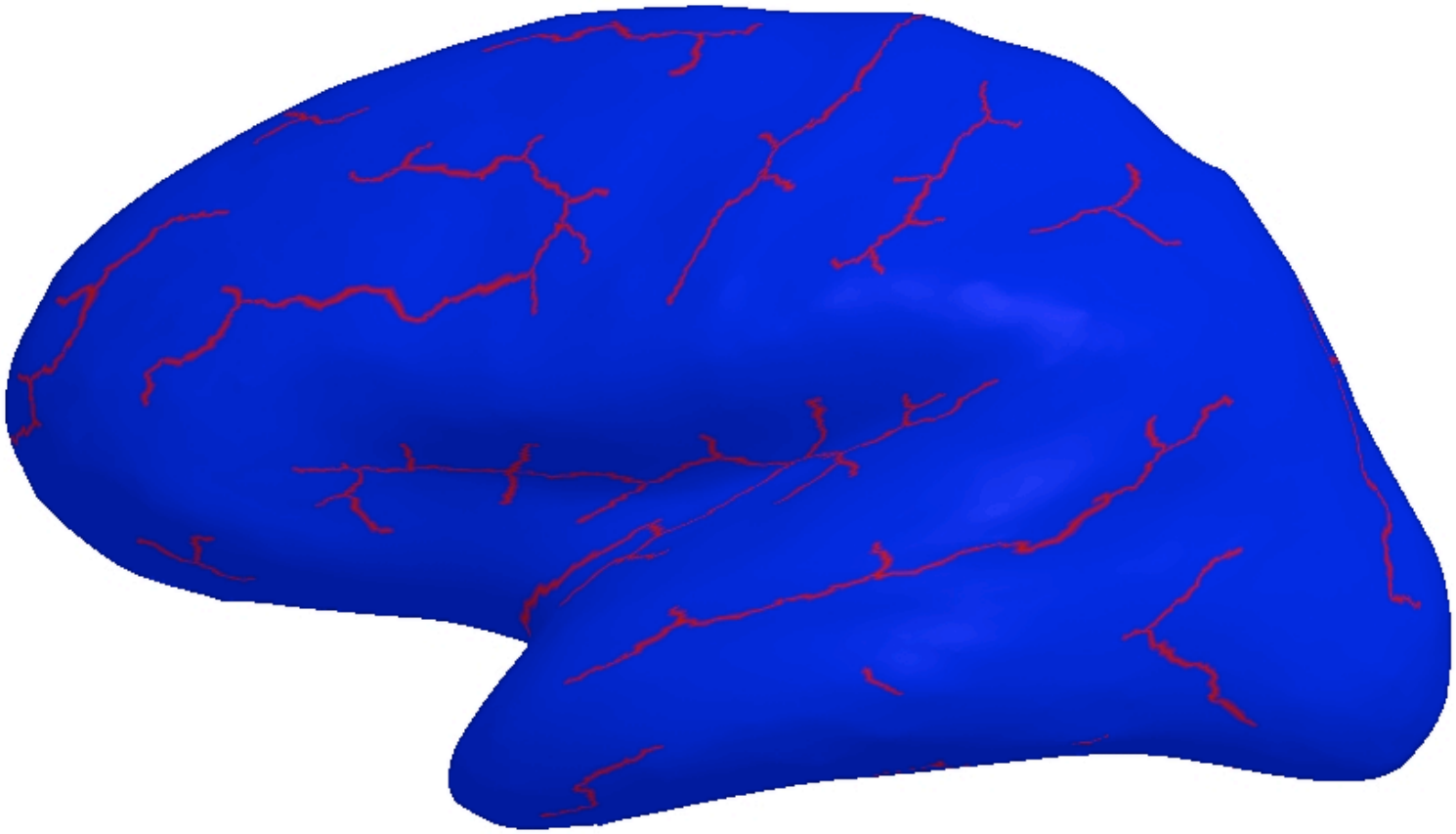
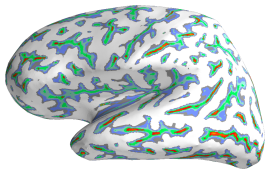


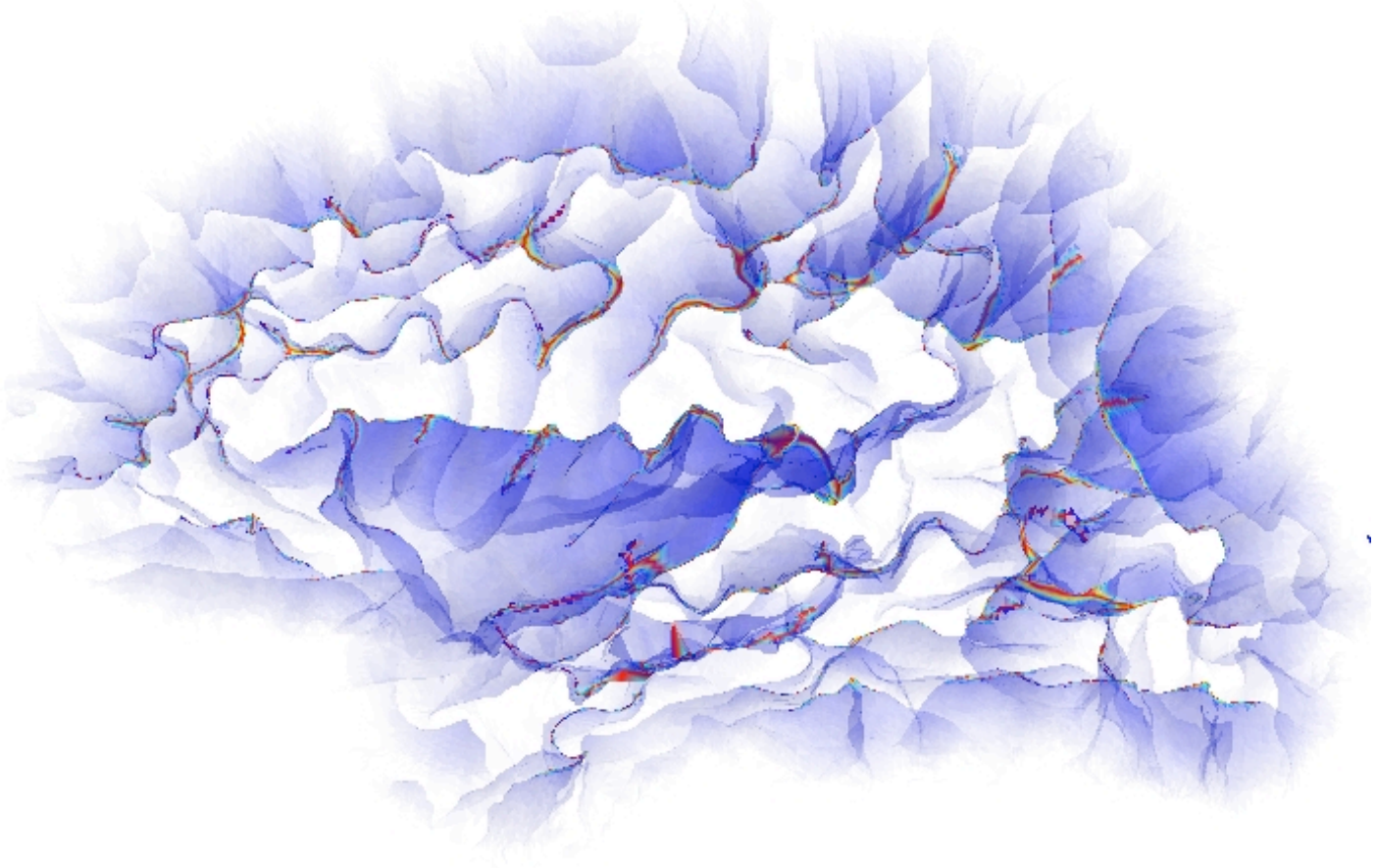


Fundus curves

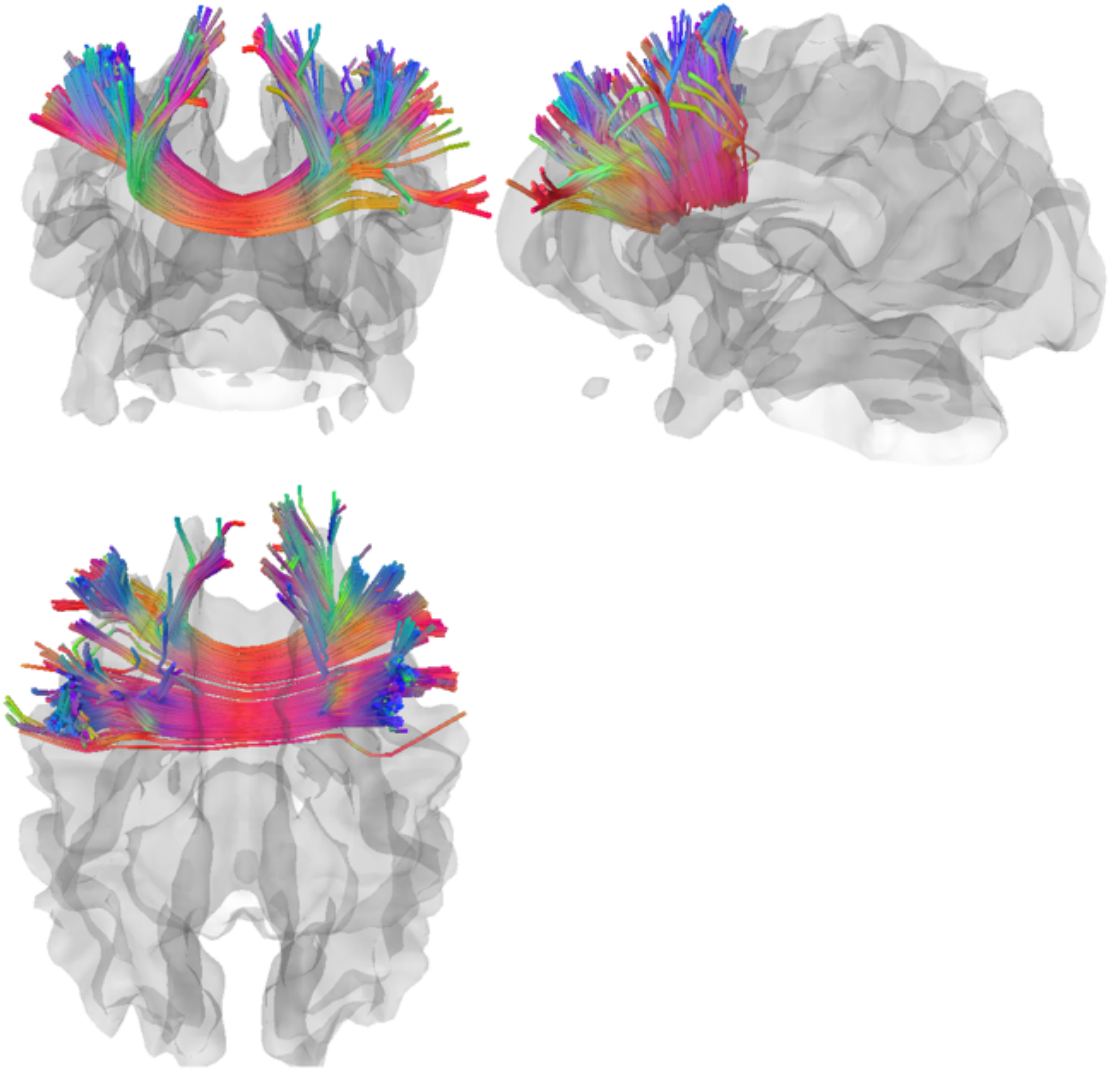




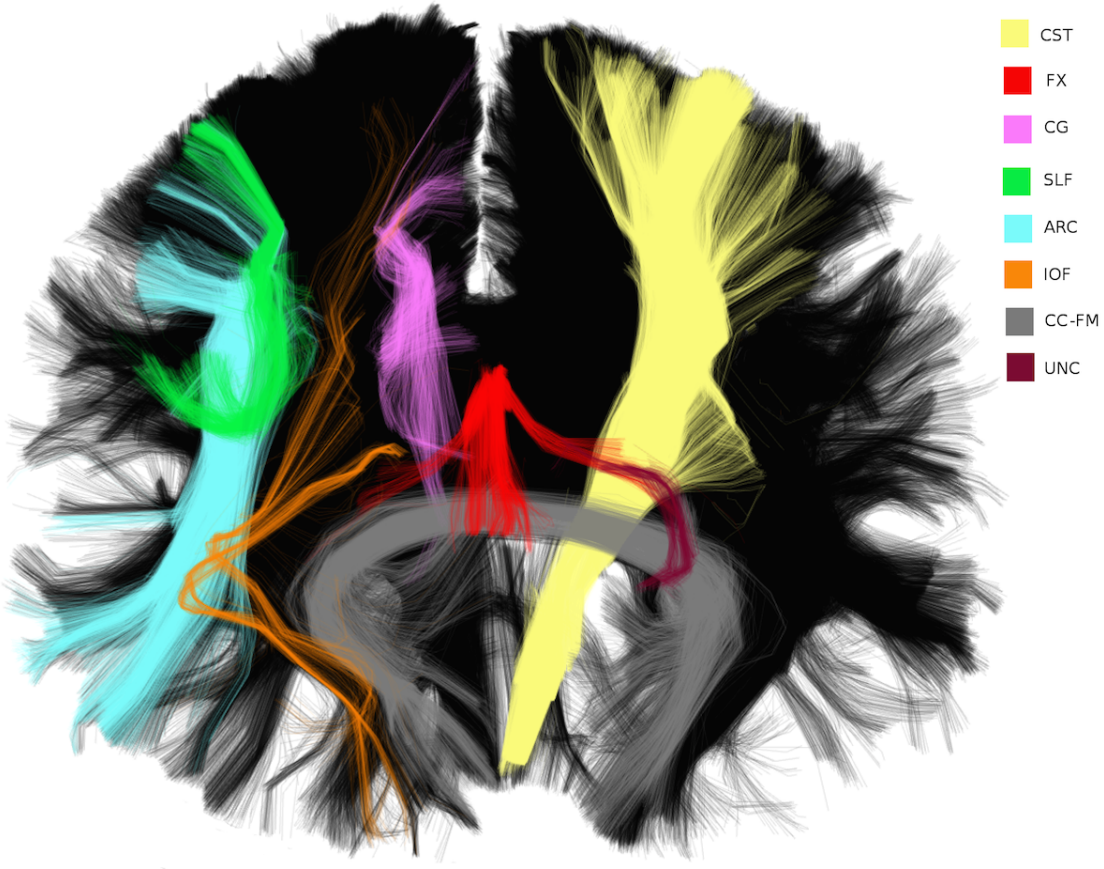
Folds + fundus curves



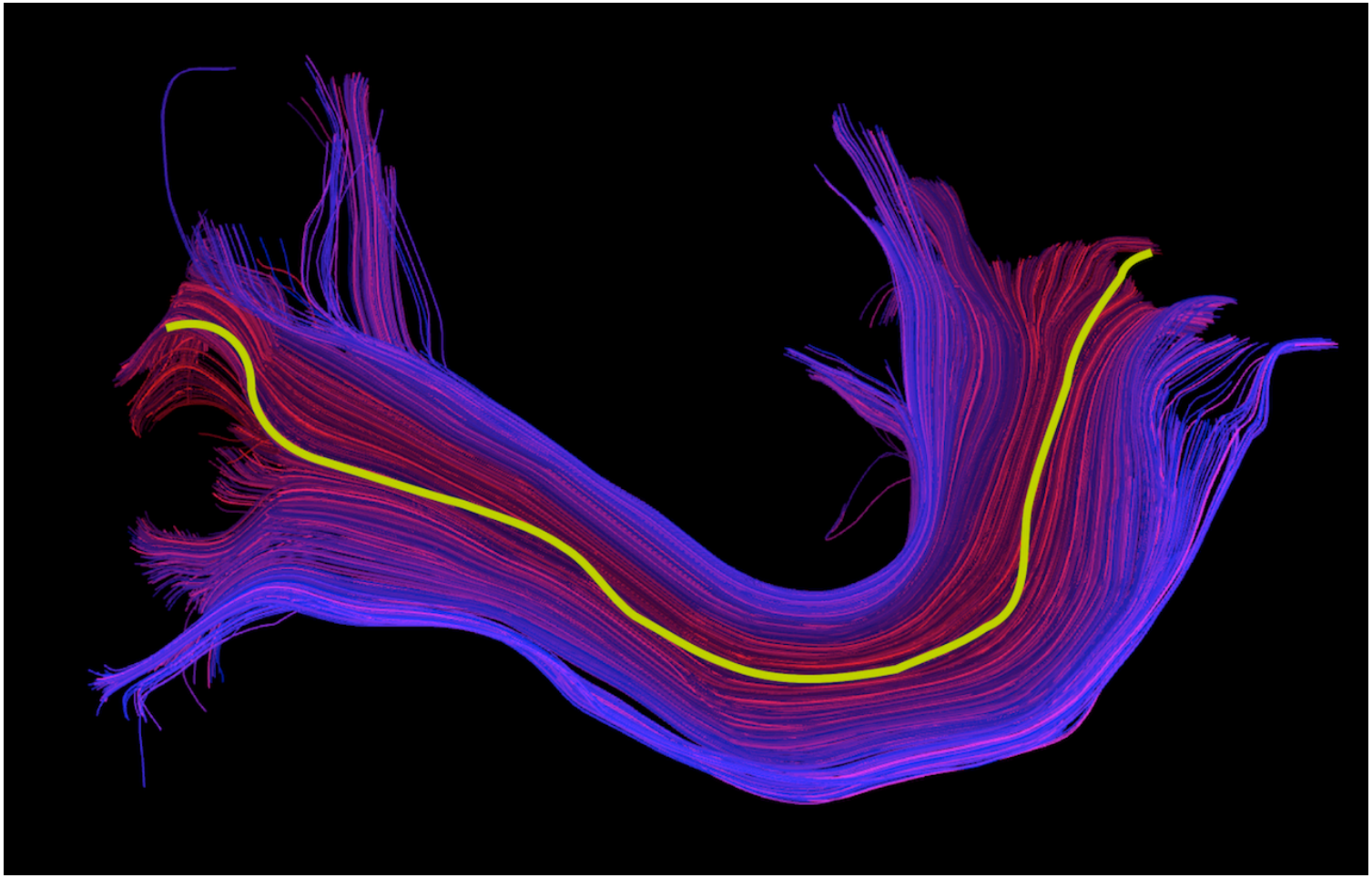
Relationships among features: Diffusion spectral imaging



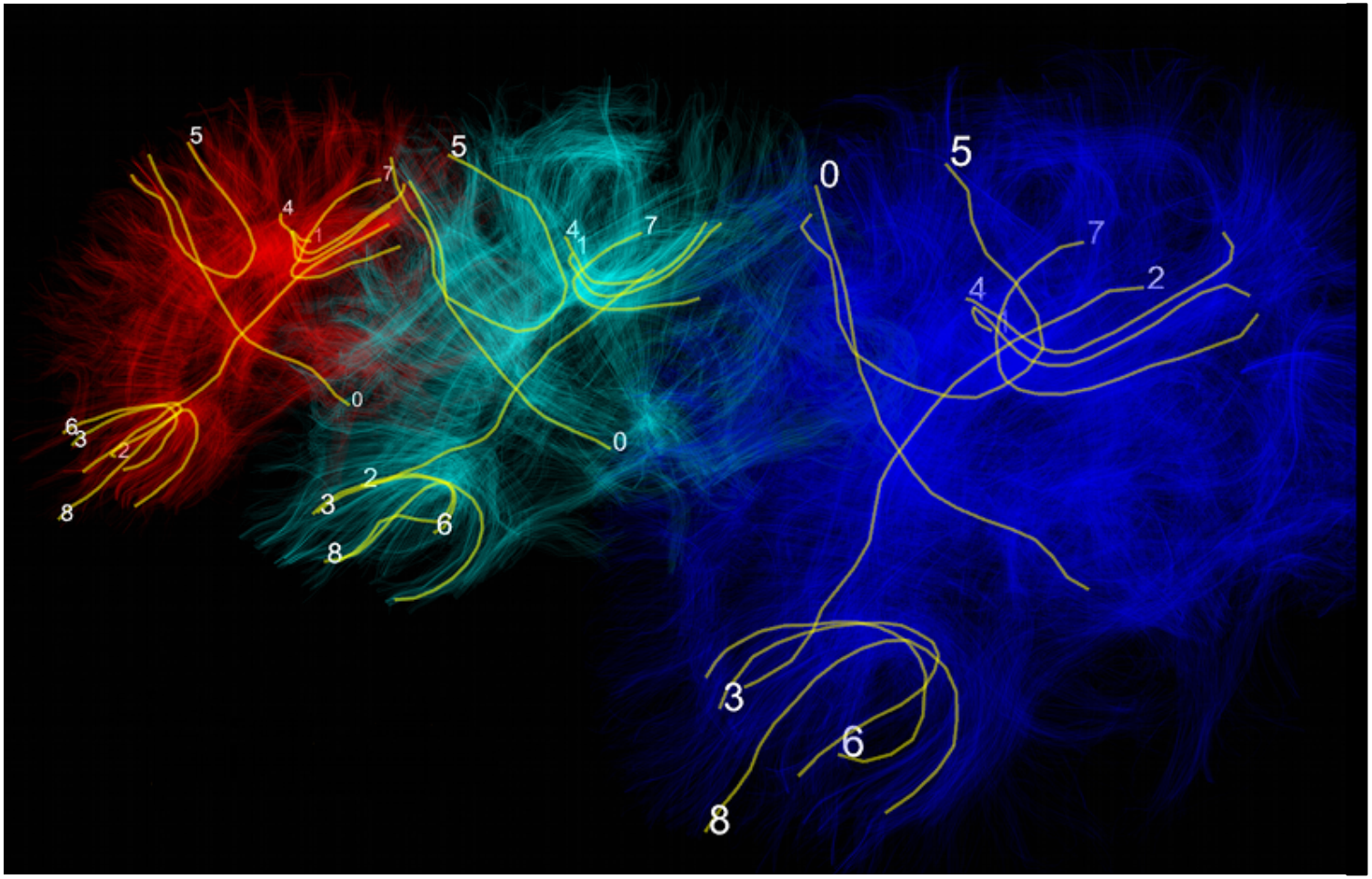
Relationships among features: dMRI connectivity



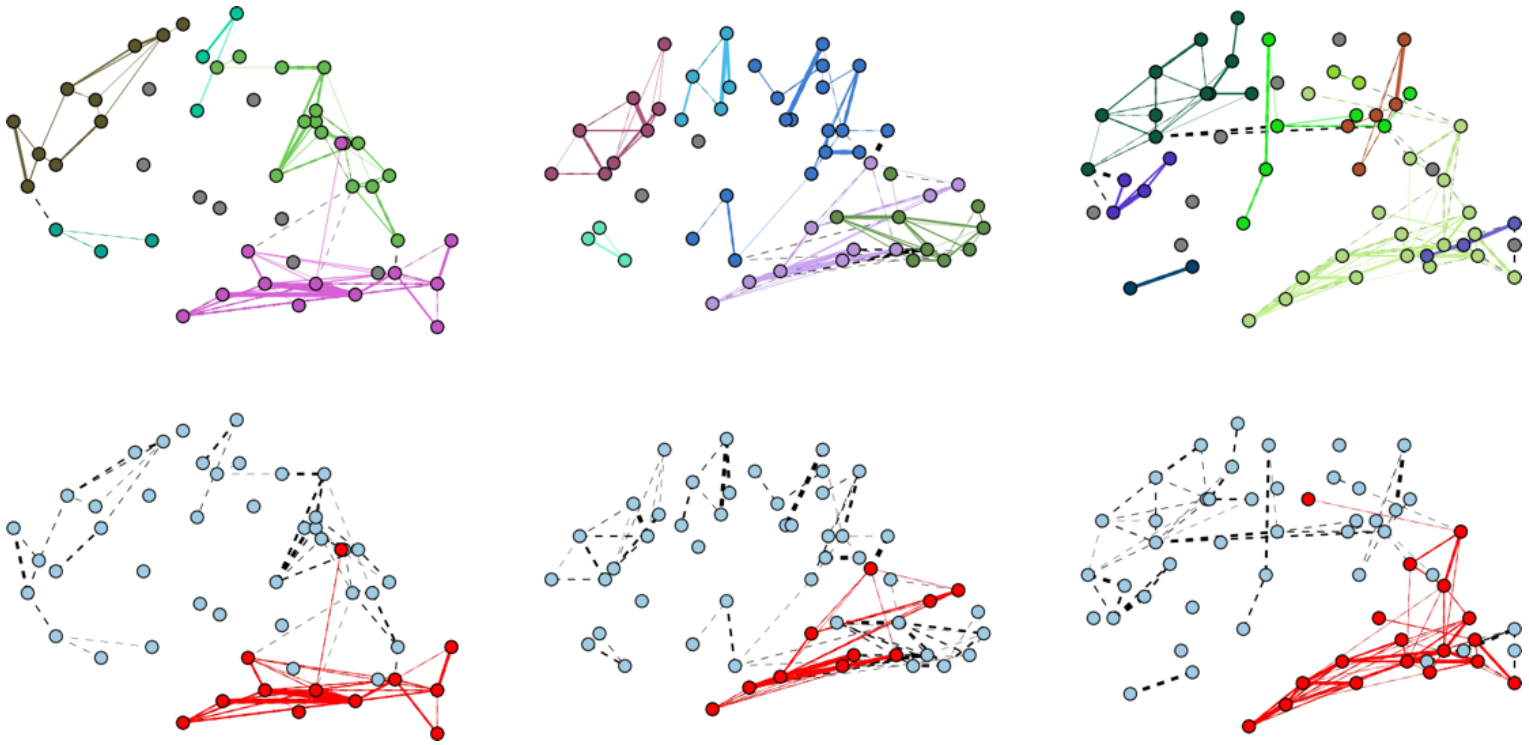
Relationships among features: dMRI connectivity



Relationships among features: dMRI connectivity



Relationships among features: dMRI connectivity



Early attempt at subgraph extraction (upper row) and matching (lower row).
These graphs were constructed from (left to right) a remitter, non-remitter, and control subject.
The subgraphs in red in the lower row have the highest small-worldness ratio.

Mindboggle team

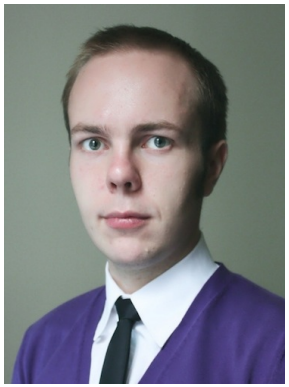
Depth and curvature

Joachim Giard
Sony, Belgium

Nested features

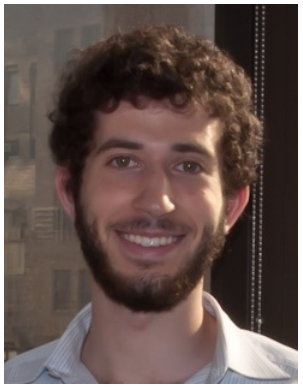
Forrest Bao
U. of Akron

Probabilistic features



Yrjö Häme
Columbia PhD student

Label propagation



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Columbia PhD student

Anatomical labeling

Jason Tourville
Boston U.

Greg Millington
Neuromorphometrics, Inc.

dMRI

Nolan Nichols
U. Washington PhD student

Machine learning

Satrajit Ghosh
MIT

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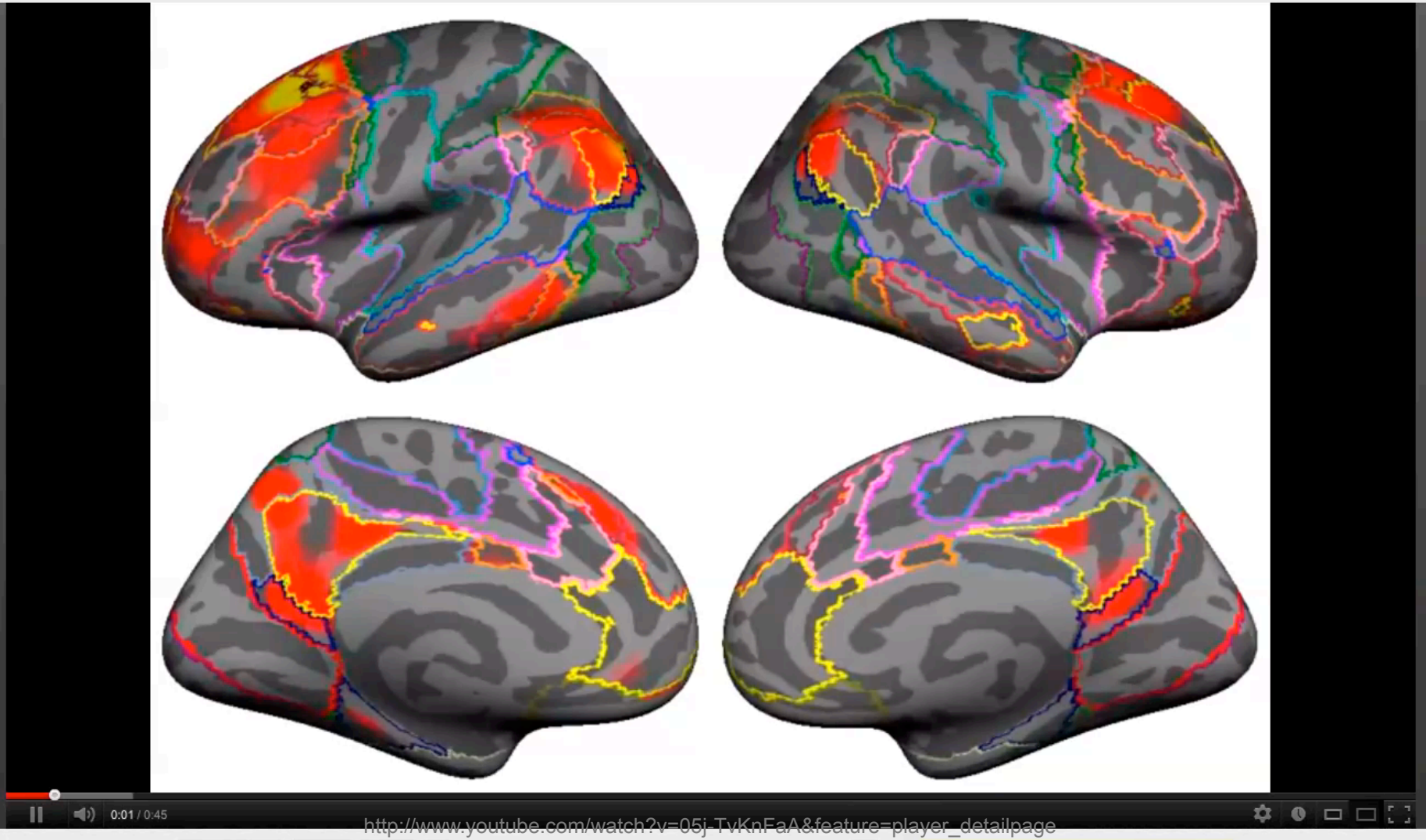

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