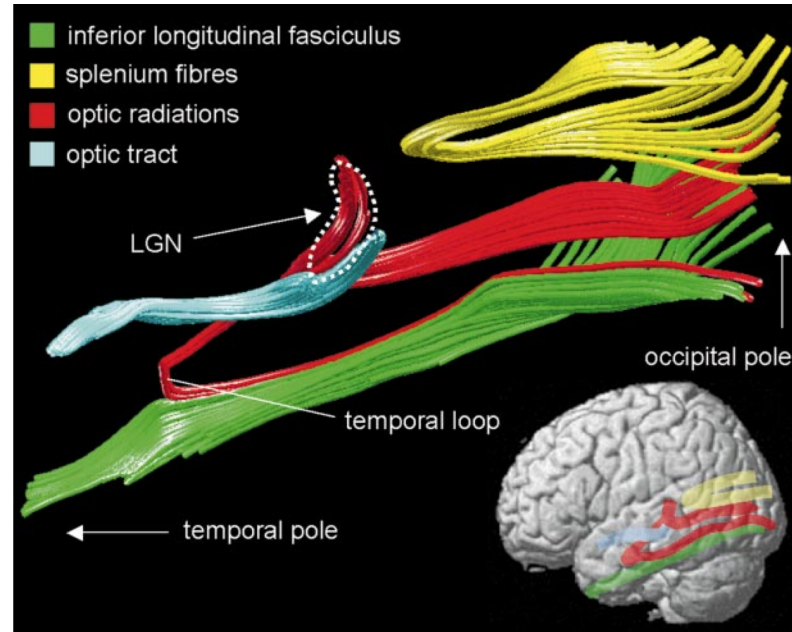


Inferior Longitudinal Fasciculus Tractography



Catani et al 2003

Tracking Goals

- 1) Segment the ventral (vILF) and Dorsal (dILF) portions of the ILF.
- 2) Visualize the superior (cuneus/DLOC) and inferior (fusiform/lingual) branches of the posterior terminations of the ILF
- 3) Extra Time: Visualize the Li-AM pathway



DORSO-LATERAL
OCCIPITAL CORTEX

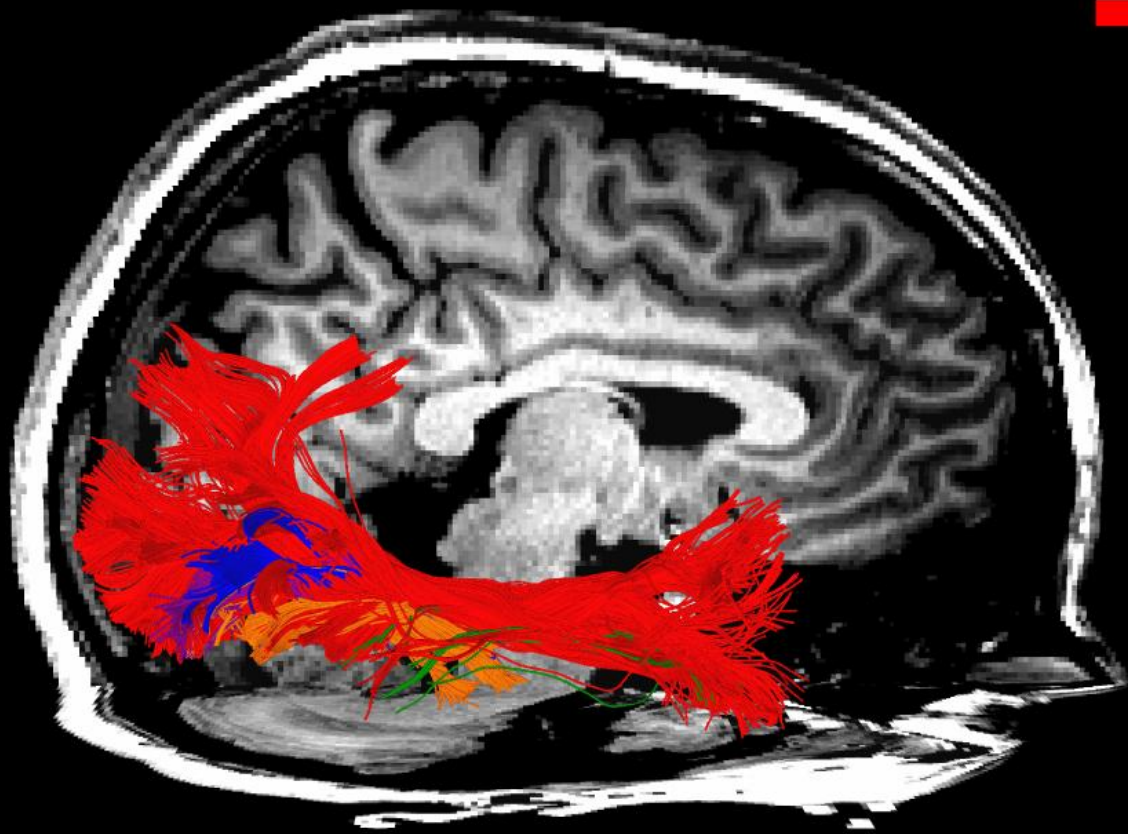
HIPPOCAMPUS

AMYGDALA

POSTERIOR LINGUAL
AND FUSIFORM
CORTICES

Subj1

ILF

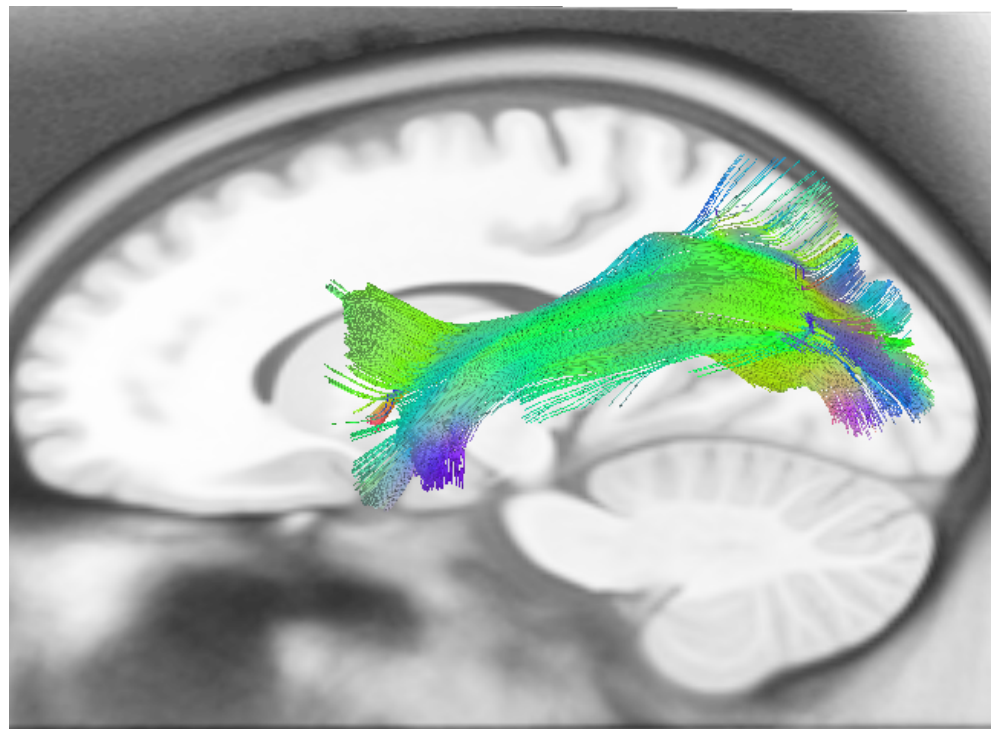
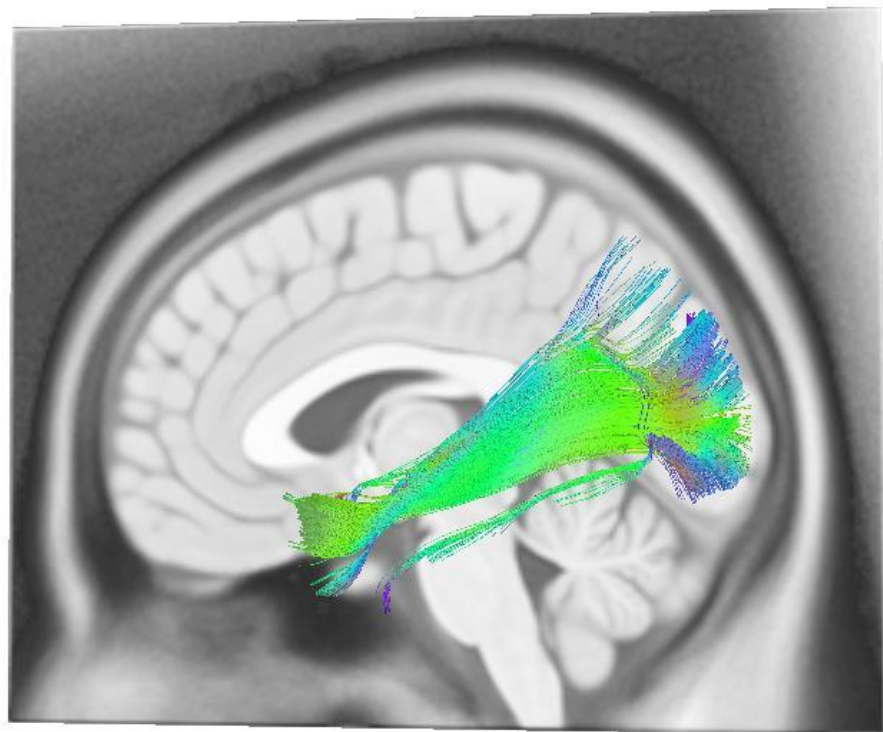


IOG

MOG

pFus

aIT



Tracking Parameters

- Keep Min Length at 50.
- Reduce Max Length to 130 or below
- Reduce Angular Theshold to 80 or below

dILF Tracking - Starting Points

- ILF White Matter-
JHU-“Sagittal_stratum_
(include_inferior_longitudinal_fasciculus_and_inferior_fro
nto-occipital_fasciculus)_L”
- Lateral ventricles
- Amygdala

dILF: Afferents + Efferents

Anterior Middle Occipital Gyrus-
aal- “Occipital_Mid_L” (smoothed)

Additional:

Medial Cuneal Cortex-
aal - “Cuneal Cortex” (smoothed)

Lingual Gyrus-
aal - “Lingual_Gyrus”

Posterior Fusiform Gyrus-
HarvardOxfordCort -
“Temporal_Fusiform_Cortex_posterior_division”



dILF: Afferents + Efferents

Superior Temporal Pole-
aal - “Temporal_Pole_Mid_L”

Inferior Temporal Pole-
aal - “Temporal_Pole_Mid_L”

Additional

Anterior Fusiform Gyrus-
HarvardOxfordCort- “Temporal_Fusiform_Cortex_anterior_division”

vILF: Afferents + Efferents

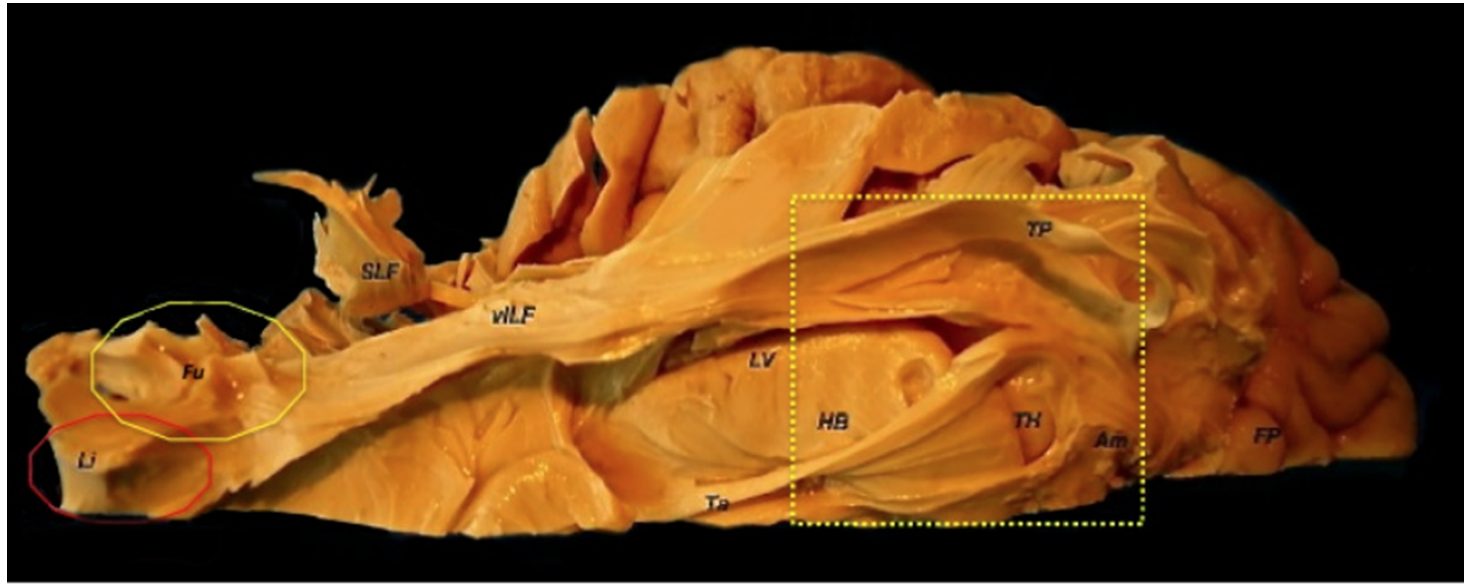
Posterior Fusiform Gyrus-

HarvardOxfordCort -

“Temporal_Fusiform_Cortex_posterior_division”

Basal Occipital Region-

aal- “Occipital_Inf_L”



vILF: Afferents + Efferents

Temporal Pole:

aal- “Temporal_Pole_Mid_L”

