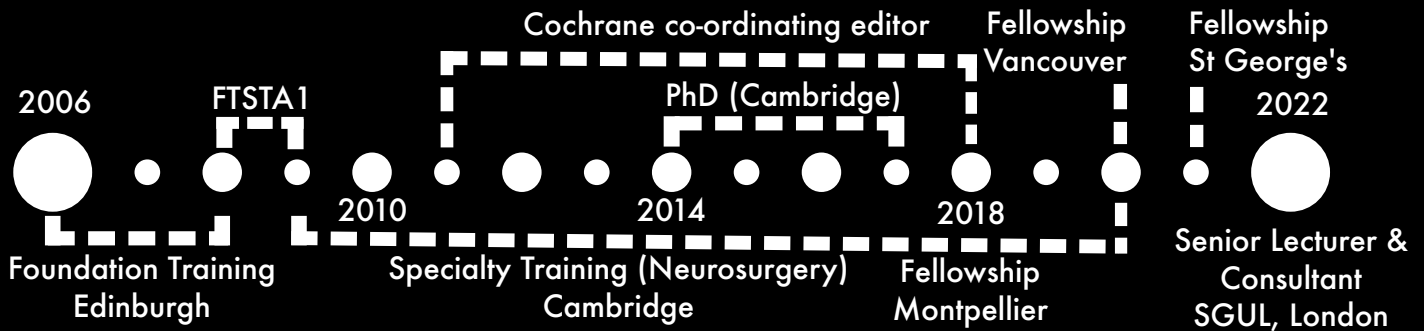# MICHAEL GAVIN HART

BSc (Hons) MBChB AHEA PhD FRCSEd FEBNS

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Timeline

- 2006 — Foundation Training Edinburgh
- FTSTA1
- 2010 — Specialty Training (Neurosurgery) Cambridge
- Cochrane co-ordinating editor
- PhD (Cambridge)
- 2014
- 2018 — Fellowship Montpellier
- Fellowship Vancouver
- Fellowship St George's
- 2022 — Senior Lecturer & Consultant SGUL, London

ACADEMIC & CLINICAL STATEMENT

My clinical interests embody the full sphere of functional neurosurgery: movement disorders, pain, epilepsy.
Maximising benefit while minimising harm are the overarching themes to my academic pursuits.
I leverage cutting-edge neuroimaging methods to understand disease mechanisms & novel targets.
Translation of technological advances is effected through judicious collaborations, app development, & trials.

ACTIVE FUNDING & PROJECTS

2022-   RAPID CNS Study
         CI: Boston Scientific Corporation

2022-   GEMINI-OS
         Co-I: Innovate UK, £2,245,814

2022-   Concept Development Award
         CI: SGUL, £17,000

2021-   7T PD
         CI: RCSEd, £10,000

PRACTICE & EMINENCE

BSSFN Research & Development Lead
EANS Functional Neurosurgery Committee
MHRA Interim Device Working Group Panel
Epilepsy Institute Specialist Advisory Committee

COMMUNITY OUTREACH

World Parkinson's Day Media Outreach 2022

Founded the SGUL neuro-devices PPIE group

Contributor to Brainbook, Brainschool, student societies at Barts, Imperial, SGUL

ACADEMIC THEMES

- Neuroimaging (7T, connectomics)
- Programming (machine learning)
- Technology/App development
- Clinical Trials/Translational Research

SELECTED PUBLICATIONS [total items: 81, research interest: 960.8, citations: 1578

High gamma activity in frontol control regions revealed using intraoperative electrocorticography
Cerebral Cortex, 2023

Subthalamic stimulation-induced local field potential changes in dystonia
Movement Disorders, 2022

Increased variance of second electrode accuracy during deep brain stimulation and its relationship to pneumocephalus, brain shift, and clinical outcomes: a retrospective cohort study
Brain and Spine, 2022