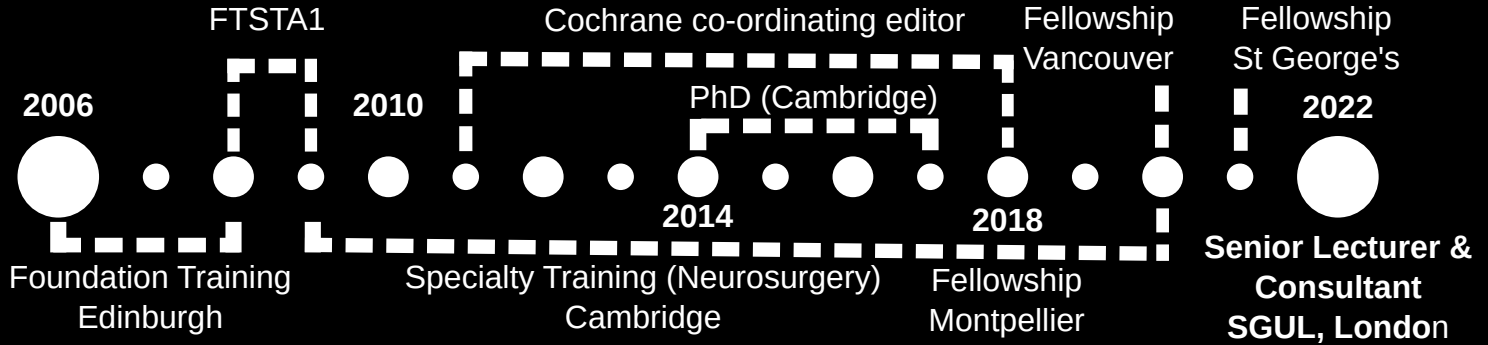# MICHAEL GAVIN HART
BSc (Hons) MBChB AHEA PhD FRCSEd FEBNS

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Timeline:

- **2006** — Foundation Training Edinburgh
- FTSTA1
- **2010**
- Cochrane co-ordinating editor
- PhD (Cambridge)
- **2014** — Specialty Training (Neurosurgery) Cambridge
- Fellowship Vancouver
- **2018** — Fellowship Montpellier
- 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

2022-   Concept Development Award
        CI: St George's, University of London

2021-   7T PD
        CI: RCSEd

PRACTICE & EMINENCE

BSSFN Research & Development Lead
EANS Functional Neurosurgery Committee
MHRA Reviewer

COMMUNITY OUTREACH

World Parkinson's Day Media Campaign
Collaboration with Boston Scientific, 2022

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: 45, research interest: 809, citations: 1342]

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