Pierre-Louis (Pilou) Bazin (he/him)

Short CV



Personal information Address: Lage Morsweg 73	
Leiden The Netherlands Nationality: French DOB: 24/01/1975 Married, two children	 <u>Education & Training</u> Electrical engineering diploma (Supélec) Masters of Signal processing and dynamical systems (University Paris XI) PhD in Image processing and Computer Vision (Inria and University Paris XI) Postgraduate training in Neuroscience (Johns Hopkins University)
 2018 – 2023 Senior Sci 2017 – 2018 Senior Sci 2011 – 2017 Senior Re 	consultant at Full brain picture Analytics, Leiden ientist at University of Amsterdam ientist at the Netherlands Institute for Neuroscience, Amsterdam searcher at the Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig associate, instructor and group director at the Johns Hopkins University, Baltimore MD
96 journal articlesMy res96 journal articlesMy res52 conference papersunders4 book chaptersmostlyH-index 44methodOpen sciencein-vivo5 datasetscompute4 toolboxescomputeBrainhack eventsof neuGrant supportmodel4 internationalmodel1 fundationconfer	arch work search is centered on the development of computational modeling techniques to better stand neural anatomy and function underlying human behavior. My work has been y focused on magnetic resonance imaging (MRI) at high field and ultra-high field. In boological and applied works, I have advanced the study of laminar MRI and fMRI, o imaging of myelin and iron in the brain, mapping of the cerebellar cortex and the vasculature, and parcellation of the subcortex. With this strong foundation in utational neuroanatomy, I have recently studied the impact of white matter pathology on ion and health, the anatomical basis of functional connectivity gradients, and the effects iral plasticity onto MRI. My latest efforts Have focused more closely on building detailled ls of the structure and function of the subcortex, an essential yet understudied region of iman brain, by bridging scales from microscopy to systems architecture and cognitive ls. These efforts are reflected not only in publications in international journals and rences, but also in Open Science output such as open-source software packages and data sets.
Mentoring 2 Postdocs 8 PhDs (co-promotor) Invited seminars: 27 institutions 2 workshops Organizing activities Subcortex workshop (2021) Brainhack Amsterdam (2017) Neuroimage special issue editor (2021-2023)	 Teaching Advanced Neuroimaging (master course, 2019-2022) Introduction to Neuroscientific Methods and Brain Anatomy (master lectures, 2018-2022) Neurophysiology: Introduction to Electrophysiology and Imaging (master lecture, 2022) Neuroplasticity (master lectures, 2015) Measurement and Analysis of Structural and Functional Imaging Data (PhD course, 2014-2015) Medical Image Processing (professional course, 2008-2010) Medical Image Analysis (master lectures, 2006-2010) Medical Imaging Tutorial (software tutorials, 2004-2008)
Languages French: fluent English: fluent Dutch: intermediate German: intermediate Japanese: basic Spanish: basic	Computer skillsAnalytic skillsJava programmingMathematical modelingPython scriptingBayesian statisticsNeuroimaging softwareMachine learning3D visualizationOther activitiesLinux environmentsBoulderingGithub code managementParkour & freerunningVideo editingBoardgames