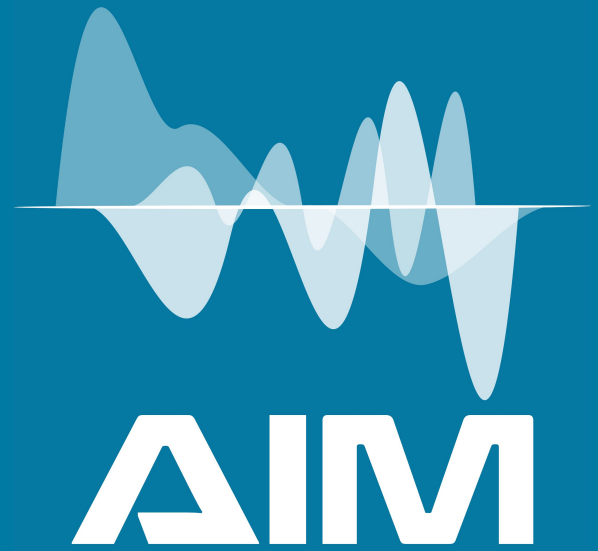


Artificial Intelligence in Medicine



UO Genova

People



Mirko

- IT Security
- Computing System



Andrea

- Data analysis
- Machine learning
- Neuroscientist
- PhD (INFN)



Senior PhD

- Software engineer
- Image processing
- PhD



Nicola

- PhD student
- Data analysis



Enrico

- PhD student
- Programmer
- Image processing



Matteo

- Neurology Resident (DINO GMI, Unige)

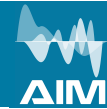
+ Master's candidate: Gloria Pedemonte (Physics)

AIM 2: Quantification

AIM2.T1 - Quantification models in PET (GE, BO)

Currently working on:

- amyloid-PET
 - semi-quantification methods & ranking
 - predictive models of amyloidosis vs. clinics
 - pattern analysis & network approaches (incidental amyloidosis, CAA, ...)
 - EADC dataset management
- FDG-PET
 - DLB & Parkinsonism
 - EDLB dataset management
- Clinical models
 - REM behavioural disorder



some recent works

Presynaptic dopaminergic neuroimaging in REM sleep behavior disorder: A systematic review and meta-analysis

(2018) Sleep Medicine Reviews, 41, pp. 266-274.

Metabolic correlates of reserve and resilience in MCI due to Alzheimer's Disease (AD)

(2018) Alzheimer's Research and Therapy, 10 (1), art. no. 35,

Accuracy and generalization capability of an automatic method for the detection of typical brain hypometabolism in prodromal Alzheimer disease

(2018) European Journal of Nuclear Medicine and Molecular Imaging, 46(2), 334-347

Early identification of MCI converting to AD: a FDG PET study

(2017) European Journal of Nuclear Medicine and Molecular Imaging, 44 (12), pp. 2042-2052

18F-FDG PET diagnostic and prognostic patterns do not overlap in Alzheimer's disease (AD) patients at the mild cognitive impairment (MCI) stage

(2017) European Journal of Nuclear Medicine and Molecular Imaging, 44 (12), pp. 2073-2083.

ongoing....

[Title]

Semi-quantification and grading of amyloid PET.

A kinetics-based approach to amyloid PET semi-quantification

[Authors]
 A.Chincarini[1], E.Pei
 Arnaldi [x], U.P. Gue
 Guerra [x], F. Nobili [3

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 [4] Neurology Clinics U
 ...

[Manuscript]

1. Introduc

The recent NIA-AA di
 PET imaging technolog
 abnormal deposit of br
 Disease (AD) spectru

Metabolic Patterns across clinical core features in patients with Dementia with Lewy Bodies: a project of the European Consortium for Dementia with Lewy Bodies (E-DLB)

^{1,2} Silvia Morbelli, ³Andrea Chincarini, ⁴Matthias Brendel, ⁴Axel Rominger, ⁵Rose Bruffaerts, ⁵Rik Vandenbergh, ⁶Milica G. Kramberger, ⁶Maja Trost, ⁷Valentina Garibotto, ⁸Nicolas Nicastro, ⁹Giovanni B. Frisoni, ¹⁰Afina W. Lemstra, ¹⁰Jessica van der Zande, ¹¹Andrea Pilotto, ¹¹

Alessandro Padovani, ¹²Sara Garcia-Placek, ¹³Irina Savitcheva, ^{14,15}Miguel A Ochoa-Figueroa, ¹⁴Annette Davidsson, ¹⁶Valle Camacho, ³Enrico Peira, ^{1,17}Dario Arnaldi, ¹²Matteo Bauckneht, ^{1,17}Matteo Pardini, ¹²Gianmario Sambucetti, ^{18,19}DagAarland, ^{1,17}Flavio Nobili. ¹IRCCS Ospedale

a slight detour ...

due to R4I + VERTIS POC...

- amyloid-PET
 - semi-quantification methods & ranking
 - predictive models of amyloidosis vs. clinics
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- 