



HEALTH SCIENCE
ECOSYSTEMS

GRADUATE SCHOOL AND RESEARCH



UNIVERSITÉ
CÔTE D'AZUR

HEALTHY Graduate School

HERD PROJECT - RAISING RESEARCH CAPACITY OF GEORGIAN HEIS THROUGH DEVELOPING R&D UNITS

Prof. Anne Vuillemin



Background and PhD in Sports Sciences
Accreditation to Supervise Research in Epidemiology and Public Health
General Secretary of the French Society of Public Health
Expertises for some French Health Agencies
Elected member of the European network for the promotion of health-enhancing physical activity (WHO/Europe)

Prof. Pascal Staccini

Head, graduate diploma 'Health Engineering' and Head, Department 'risk engineering and health informatics', School of Medicine, Nice
Head, Department 'medical informatics', University Hospital, Nice
Chair of the International Conference Segamed (*Serious Games and Simulation for Medicine and Healthcare*)
President of the National Associations of Biostatistics and Informatics Teachers and Researchers (AIM-CIMES)



World Health Organization definition of health

“Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity”.

Preamble to the Constitution of WHO as adopted by the International Health Conference, New York, 19 June - 22 July 1946; signed on 22 July 1946 by the representatives of 61 States (Official Records of WHO, no. 2, p. 100) and entered into force on 7 April 1948.

Background

Enormous challenges our health system faces:

- the health risks associated with exposure to pollution and toxins;
- the risks of infection;
- chronic illnesses;
- new demographic, epidemiological and social issues;
- the health risks linked to the health system itself.

Social and territorial inequality of health is still pronounced in France.



Our challenges

- to develop an intersectoral approach to healthcare;
- to develop health promotion;
- to deliver appropriate health and care services;
- to provide personal, appropriate and accessible health pathways;
- to tailor measures to suit different territories;
- to base decisions on proven knowledge, independent assessment and expertise, health impact studies and research;
- to consider what works in the field.

HEALTHY Identity Card

- 3 main disciplines (sports sciences, psychology, medicine)
- 6 research unit (4 main and 2 secondary)
- 1 research federation
- 4 doctoral school (3 main and 1 secondary)
- 5 Master's degrees:
 - 3 in Sport Sciences (3 Master's programs)
 - 1 in Psychology (6 Master's programs)
 - 1 in Health engineering (8 Master's programs)

17 Master's programs
≈ 600 students

Objectives

- develop an ecosystem approach to health (individual and population) to address health-related societal issues
- offer teaching programs to develop new skills and professions to promote and take charge of health.
- strengthen the integration of research and innovation in training programs
- coordinate and strengthen health research activity, particularly health interventions
- create/consolidate a health ecosystem cluster
- develop international collaborations

Master's degrees in Sport Sciences

Training and Optimization of Sports Performance (EOPS) - [Jean-Benoît Morin](#)

Adapted Physical Activity and Health (APAS) - [Anne-Sophie Rousseau](#)

Management of Sport - Territorial development through Sport (MSTS) - [Laura Schuft](#)

Master's degree in Sport Sciences EOPS

- Physical Preparation and Reathletisation program
- aims to train training professionals in the federal high-level sport sector, and specialists in the maintenance of physical life for healthy people.
- combination of theory, practice and scientific approaches to train professionals in sports training, physical preparation and reathletisation, but also sports science researchers.



Master's degree in Sport Sciences

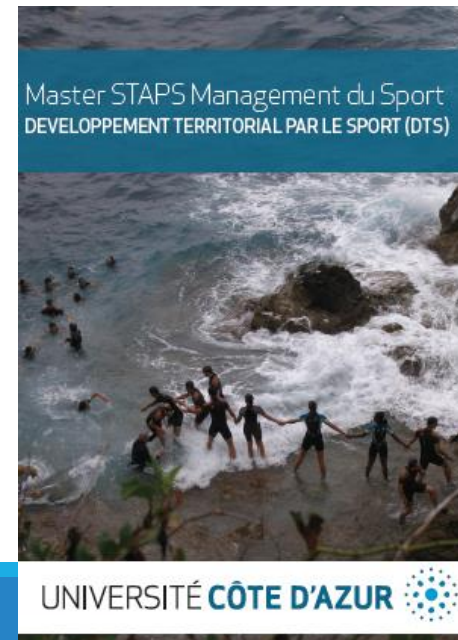
APAS

- aims to train project managers in "health prevention" and/or physical activity intervention managers for audiences seeking to improve or maintain their health.
- enables students to acquire skills to develop, implement and evaluate physical activity programs adapted to preventive and/or therapeutic purposes, taking into account the context (nutritional, historical, socio-political, cultural).



Master's degree in Sport Sciences MSTS

- part of a unique collaboration in France with the Master's degree in "Business Law parcours Juriste du Sport (JS)" and the Master's program in "Marketing, Entrepreneurship and Sport Events (MEES)".
- provides multidisciplinary skills designed to develop and boost a territory and human organisations, through the diagnosis of challenges, the design of sports projects and the management of projects and teams.



Master's degree in Psychology

- mainly conducts to the title of Psychologist.
- aims to train future Psychologists in the different disciplines, populations, methods and techniques developed in psychology.
- also allows to pursue a PhD. It therefore trains in research methods and statistics.

Master's degree in Psychology

6 Master's programs:

- Integrative clinical psychology and aging - [André Quadéri, Xavier Corveleyn](#)
- Clinical psychology and therapeutic mediation by mean of art - [Frédéric Vinot, Jean-Michel Vivès](#)
- Developmental, learning and educational psychology - [Michaël Fartoukh](#)
- Neuropsychology and cognitive psychopathology - [Galina Iakimova, Damien Vistoli](#)
- Cognitive ergonomics of digital technologies - [Pierre Therouanne](#)
- Clinical psychology, vulnerabilities and trauma development - [Andréa Soubelet, Florence Askenazy, Michel Benoit](#)

Master's degree in Health Engineering

- offers multidisciplinary courses with a main focus on quality management and health risk management.
- prepares students for positions in:
 - biomedical hospital engineering,
 - quality and preventive engineering in primary and tertiary care,
 - management of medical and social institutions,
 - project management in public health,
 - telehealth,
 - health data manager,
 - clinical research engineer,
 - head of a health simulation centre,
 - health training engineer.

Master's degree in Health Engineering

8 Master's programs:

Health management

- Quality and Health Risk Management (QGRS) - JF Quaranta
- Primary Care Organisations and Evaluations (OrESP) - D Darmon, P Staccini
- Engineering for Aging and Autonomy (IVA) - O Guérin
- Public Health (SP) - C Pradier

Technical and technological methods

- Data, Decision, Systems and eHealth (2D2S) - P Staccini, G Maignant
- Biomedical Engineering (GBM) - M Benabdesselam
- Pedagogy using Simulation in Health Sciences (P3S) - JP Fournier
- Interventional Clinical Research (RECLINT) - E Chamorey, PS, GM

Research Units *(alphabetical order)*



- CoBTeK lab (Cognition Behavior Technology) - **Philippe Robert**



- LAMHESS (Laboratory of Human Motricity Expertise Sport Health) - **Fabienne d'Arripe-Longueville**



- LAPCOS (Laboratory of Anthropology and Clinical, Cognitive and Social Psychology) - **Dirk Steiner**



- RETINES (Risk, Epidemiology, Territories, Information, Education and Health) - **Pascal Staccini**

- Multidisciplinary laboratory
- Study of the physiological, biomechanical, psychological and social determinants of human sport and physical activity
- 2 fields of application: high-level sports performance and physical activity for health.



« **SPORTS
PERFORMANCE** »

Jean-Benoît Morin

**Optimization of High Level
Sports Performance**

Jean-Benoît Morin



Fatigue, Exercise and Cognition

Grégory Blain

« **PHYSICAL ACTIVITY
FOR HEALTH** »

F. d'Arripe-Longueville

**Motor Impairment and
Physical Activity**

Raphaël Zory



**Health-enhancing
Physical Activity promotion**

Anne Vuillemin





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Journal of Sports Sciences

ISSN: 0264-0414 (Print) 1466-447X (Online) Journal homepage: <http://www.tandfonline.com/loi/rjsp20>

Field monitoring of sprinting power-force-velocity profile before, during and after hamstring injury: two case reports

J. Mendiguchia, P. Edouard, P. Samozino, M. Brughelli, M. Cross, A. Ross, N. Gill & J. B. Morin



ORIGINAL RESEARCH
published: 07 August 2019
doi: 10.3389/fphys.2019.01026



Combined Resistance and Plyometric Training Is More Effective Than Plyometric Training Alone for Improving Physical Fitness of Pubertal Soccer Players

Firas Zghal^{1,2}, Serge S. Colson², Grégory Blain², David G. Behm^{3†}, Urs Granacher^{4††} and Anis Chaouachi^{5,6,7†}

¹ Education, Motor Skills, Sports and Health, Higher Institute of Sport and Physical Education of Slax, University of Slax, Slax, Tunisia, ² Université Côte d'Azur, Laboratoire Motricité Humaine Expertise Sport Santé, Nice, France, ³ School of Human Kinetics and Recreation, Memorial University of Newfoundland, St. John's, NF, Canada, ⁴ Division of Training and Movement Science, University of Potsdam, Potsdam, Germany, ⁵ Tunisian Research Laboratory "Sports Performance Optimization", National Center of Medicine and Science in Sports (CNMSS), Tunis, Tunisia, ⁶ AUT University, Sports Performance Research Institute New Zealand, Auckland, New Zealand, ⁷ PVF Football Academy, Hu'ng Yên, Vietnam

OPEN ACCESS

Edited by:

Article



Perceived barriers to and facilitators of physical activity in people living with HIV: A qualitative study in a French sample

Laura Gray¹ , Laura Schuft², Alessandro Bergamaschi², Valentine Filleul¹, Serge S Colson¹ and Fabienne d'Arripe-Longueville¹

Chronic Illness
00) 1–18
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journals.sagepub.com/home/di

Health: from birth to aging

This topic focuses on the conditions for preserving well-being and mental health in its anthropological, psychological and social dimensions.

3 themes:

1. Aging well and quality of life: aging, quality of life at work
2. Disability and vulnerability: disability in terms of both deficit and social focus on disability and prevention
3. Digital knowledge, learning and technologies: knowledge and its transmission in a developmental and generational perspective



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Contents lists available at ScienceDirect

International Journal of Human-Computer Studies

journal homepage: www.elsevier.com/locate/ijhcs



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Web accessibility: Filtering redundant and irrelevant information improves website usability for blind users



Stéphanie Giraud^{a,b,*}, Pierre Thérouanne^{a,b}, Dirk D. Steiner^{a,b}

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^b Laboratoire d'Anthropologie et de Psychologie Cliniques, Cognitives et Sociales, Campus Saint Jean d'Angely / 8 Antipolis, 25 avenue François Mitterrand, Cedex 4, 06357 Nice, France

Psychiatry and Clinical Neurosciences 2014; 68: 365–373

doi:10.1111/pcn.12137

Regular Article

Behavioral and brain measures (N400) of semantic priming in patients with schizophrenia: Test–retest effect in a longitudinal study

Chrystel Besche-Richard, PhD,^{1,2,*} Galina Iakimova, PhD,³
Marie-Christine Hardy-Baylé, MD, PhD⁴ and Christine Passerieux, MD, PhD⁴

¹Cognition, Health and Socialization Laboratory, Reims Champagne-Ardenne University, Reims, ²French University Institute, Paris, ³Anthropology, Social and Cognitive Psychology Laboratory, Nice Sophia-Antipolis University, Nice, and ⁴ECIPSY, Versailles Hospital & Versailles Saint-Quentin University, Le Chesnay, France

Neuropsychologia 132 (2019) 107121

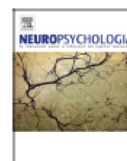


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Contents lists available at ScienceDirect

Neuropsychologia

journal homepage: www.elsevier.com/locate/neuropsychologia



Does the motor system contribute to the perception of changes in objects visual attributes? The neural dynamics of sensory binding by action

Yannick Wamain^a, Xavier Corveleyn^b, Laurent Ott^a, Yann Coello^{a,*}

^a Univ. Lille, CNRS, CHU Lille, UMR 9193 - SCALab - Sciences Cognitives et Sciences Affectives, F-59000, Lille, France

^b Université Côte d'Azur, LAPCOS, EA 7278, 06300, Nice, France



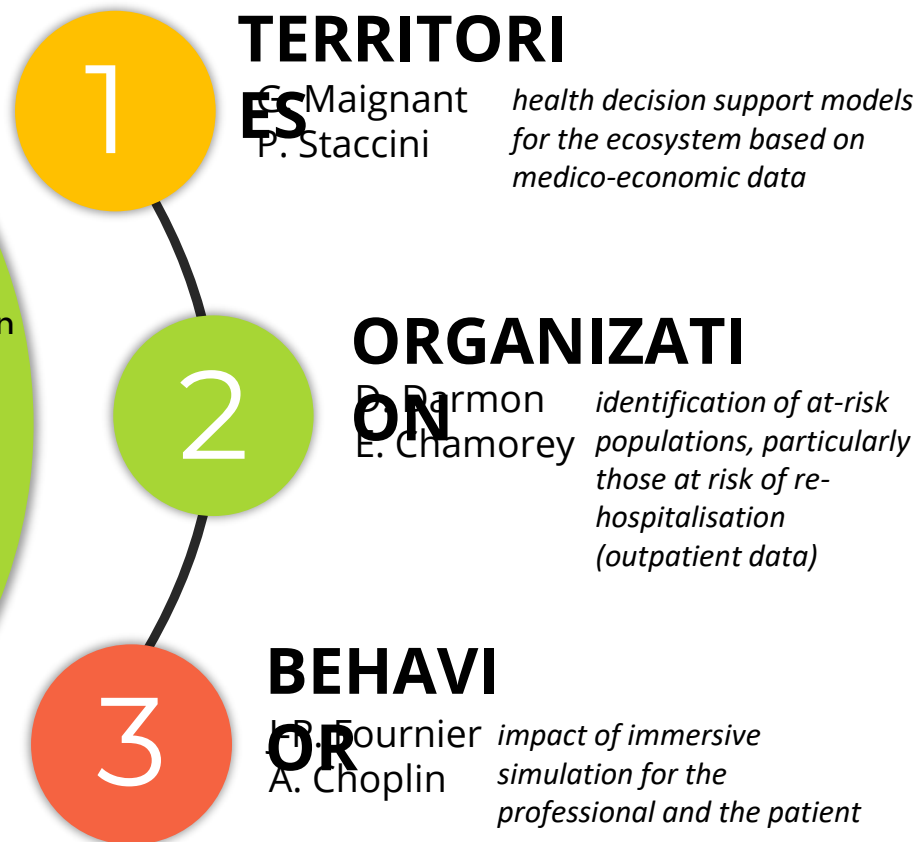
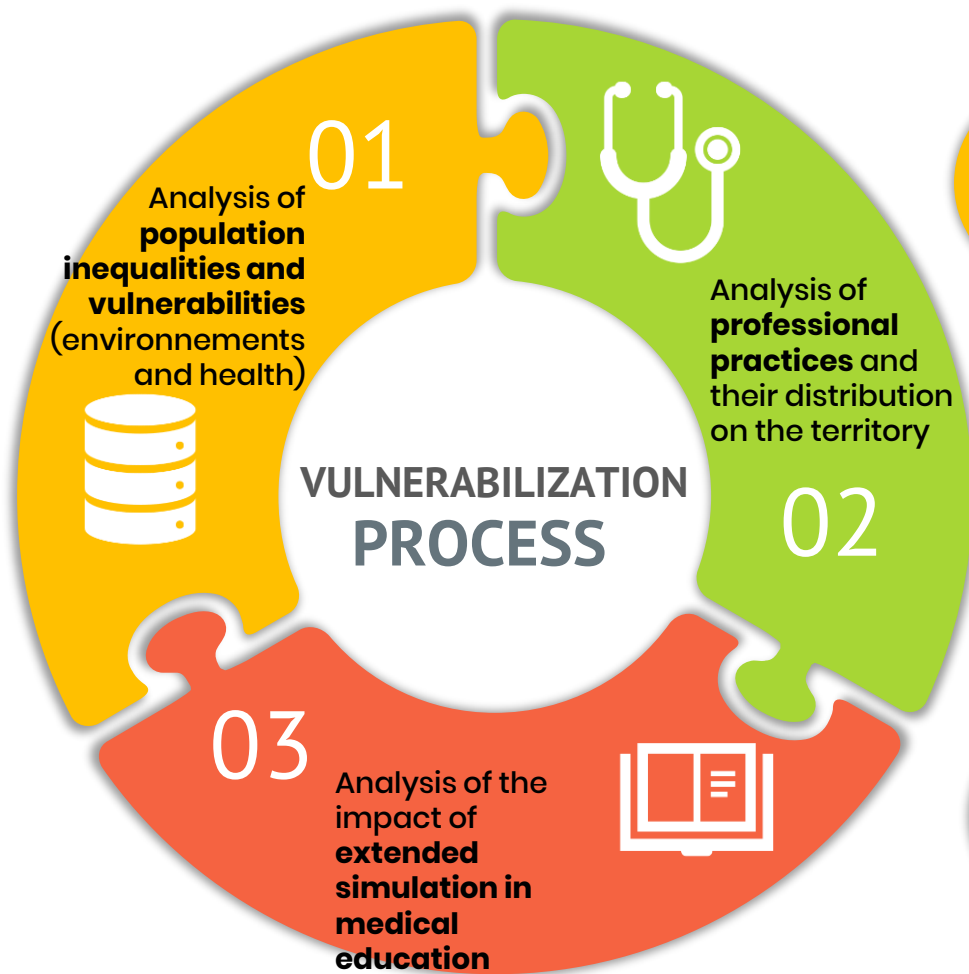


RETINES

Main topic: vulnerability and the process of vulnerability

3 themes corresponding to 3 risk-bearing areas:

1. Measurement of exposure and environmental risk,
2. Analysis of professional practices,
3. Training, learning and health literacy.





ELSEVIER

journal homepage: www.ijmijournal.com

Which functionalities are available in the electronic health record systems used by French general practitioners? An assessment study of 15 systems

David Darmon^{a,*}, Rémy Sauvant^a, Pascal Staccini^b, Laurent Letrilliart^c^a Département d'Enseignement et de Recherche en Médecine Générale, Faculté de Médecine, Université de Nice Sophia-Antipolis, France^b LabSTIC, Faculté de Médecine, Université de Nice Sophia Antipolis, France^c Département de Médecine Générale, Faculté de Médecine Lyon-Est, Université de Lyon 1, France

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Findings from 2017 on Consumer Health Informatics and Education: Health Data Access and Sharing

Pascal Staccini¹, Annie Y. S. Lau², Section Editors for the IMIA and IOS Press.
¹ INSERM UMR 912 SESSTIM, IRIS
² Centre for Health Informatics

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MEDINFO 2017: Precision Healthcare through Informatics
A.V. Gundlapalli et al. (Eds.)
© 2017 International Medical Informatics Association (IMIA) and IOS Press.This article is published online with Open Access by IOS Press and distributed under the terms of the Creative Commons Attribution Non-Commercial License 4.0 (CC BY-NC 4.0).
doi:10.3233/978-1-61499-830-3-462

Creation of the First French Database in Primary Care Using the ICPC2: Feasibility Study

Lacroix-Hugues V^{a,b}, Darmon D^{a,e}, Pradier C^b, Staccini P^{c,d,e}^a Deptt d'Enseignement et de Recherche en Médecine Générale, Université Nice Sophia-Antipolis, Nice, France^b Département de Santé Publique, CHU de Nice, Nice, France^c Département d'Information et d'Informatique Médicale, CHU de Nice, Nice, France^d Département d'Ingénierie du Risque et Informatique de Santé, CHU de Nice, Nice, France^e UMR 912 SESSTIM INSERM, Marseille, FranceHEALTH SCIENCE
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Statistical, Mapping and Digital Approaches in Healthcare

Gilles Maignant and Pascal Staccini

ISTE
PRESS

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Research Federation

- Health Interventions - [Fabienne d'Arripe-Longueville](#) / [Philippe Robert](#)

FRIS Fédération de Recherche
INTERVENTIONS en SANTE

- Purpose: to bring together research work on health interventions conducted in our university.

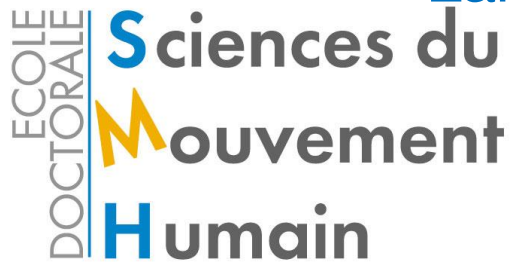
health interventions:

"any activity aimed at maintaining or improving the health of a population, health promotion, prevention, diagnostic action, therapeutic action, etc. (*French National Authority for Health, 2014*)".

Doctoral schools



Thomas
Lamonerie



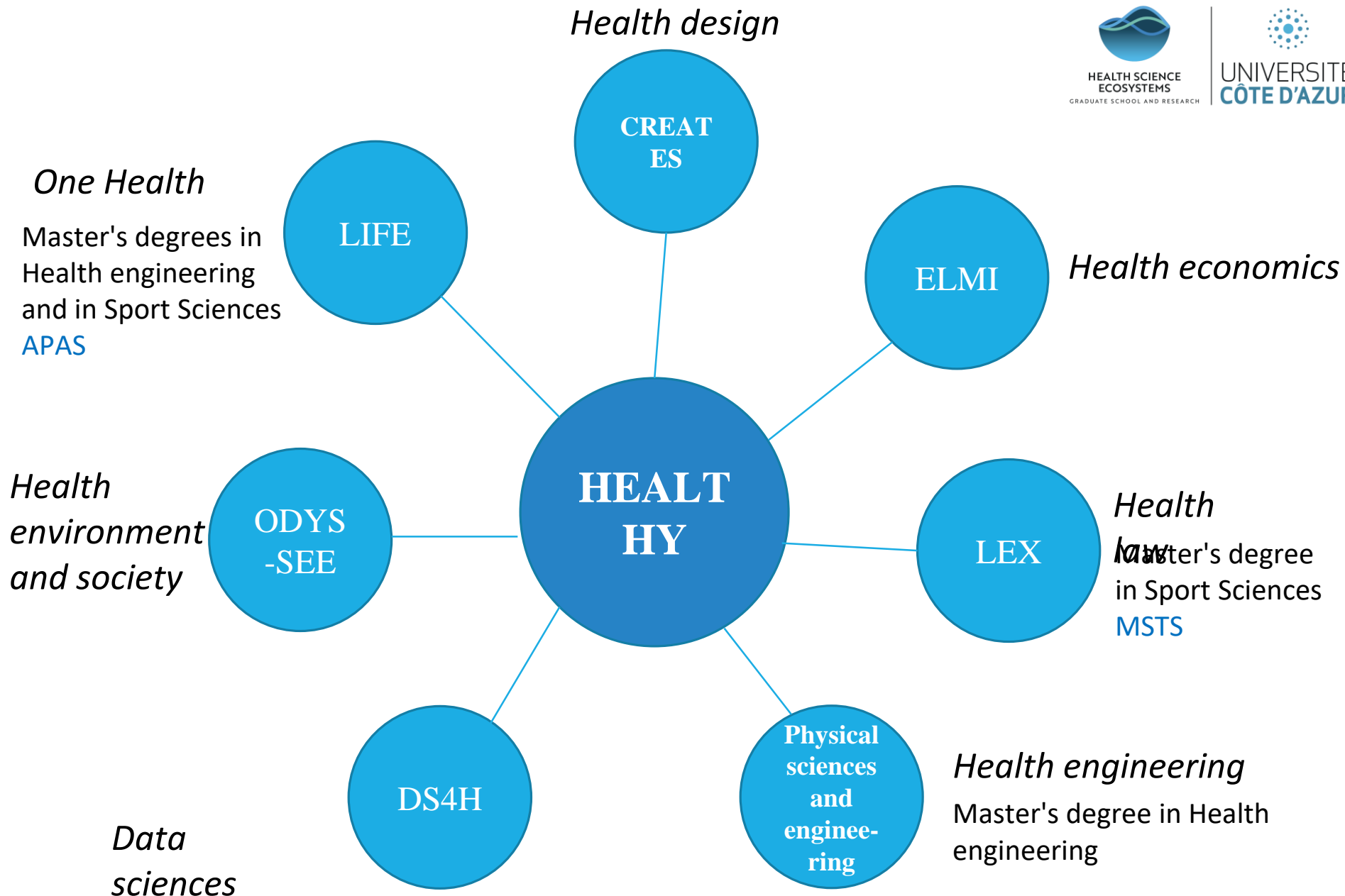
Grégory
Blain



Claire
Migliaccio



Fabien
Mathy



WORKS IN PROGRESS

3 areas of excellence under development: academic - research

- 'preventive compliance' among both professionals and citizens
- active transport, smart city and health
- data science for health and public health (Territories Health Open Report - THOR project)

LINKS/COLLABORATIONS

- Chair in Health sciences simulation with Université Laval (linked to segamed.eu), linked to the medical and surgical simulation centre of the medical school of Nice
- Chair in women's health with Université Laval
- Chair of philosophy and ethics for the smart city (Laurence Vanin, RETINES)
- Links with the digital health industry ("health" sensors) and knowledge engineering (ex: ELSEVIER)
- Link with national Health Data Hub project (organization of a school on IA and Health?)
- European projects

‘An ecosystem approach to health-enhancing physical activity promotion’

SAVE THE DATE

16th annual meeting and 11th conference of HEPA Europe
(WHO/Europe network for the promotion of health-enhancing physical activity)



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Jointly organized with WHO/Europe

<https://hepaeurope2020.sciencesconf.org>

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