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Digital health evolution: exploring modalities, barriers, and methodology for advancing healthcare delivery

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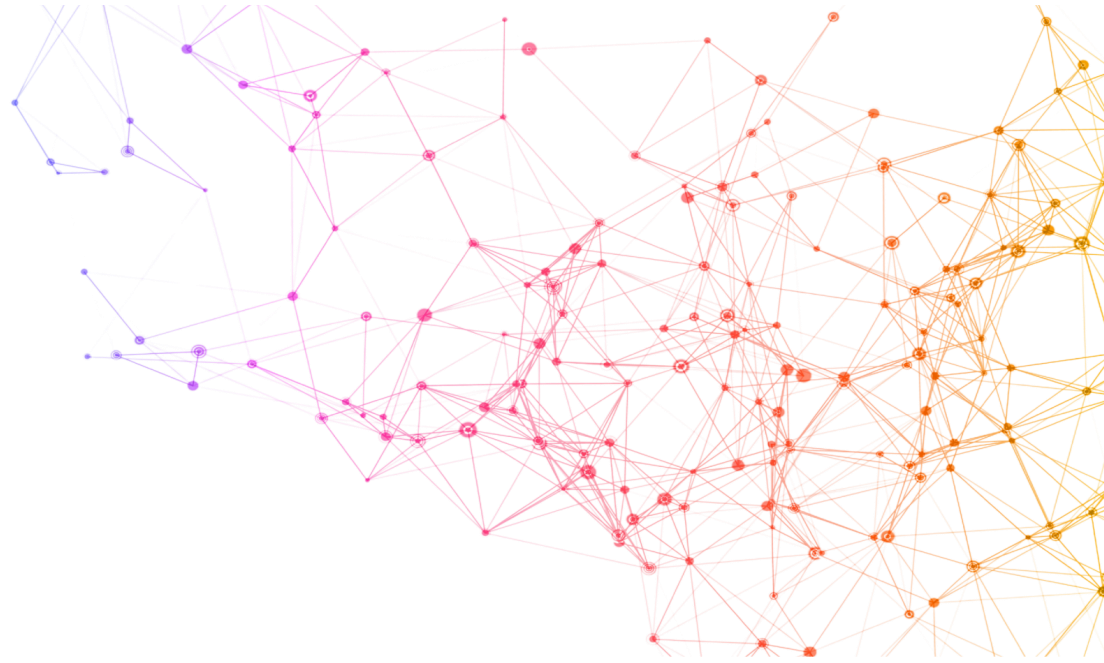
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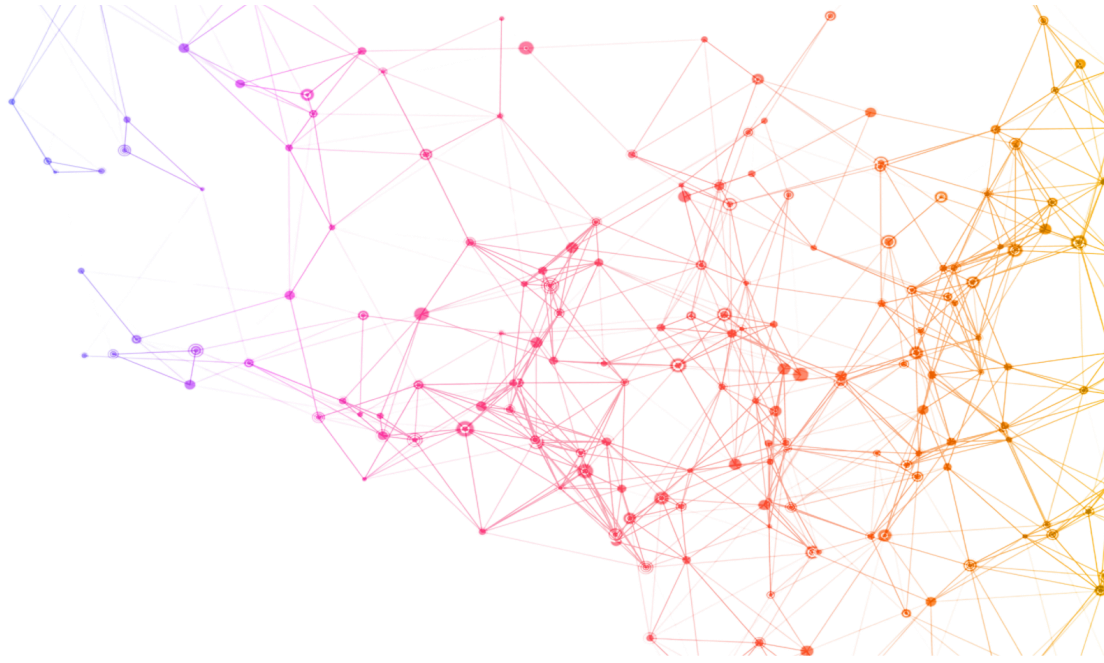


List of Publications

Pier Andrea Spinazze



- **Spinazze P**, Aardoom J, Chavannes N, Kasteleyn M. The Computer Will See You Now: Overcoming Barriers to Adoption of Computer-Assisted History Taking (CAHT) in Primary Care. *J Med Internet Res.* 2021;23(2):e19306. Published 2021 Feb 24. doi:10.2196/19306
- **Spinazze PA**, Kasteleyn MJ, Aardoom JJ, Car J, Chavannes NH. Cross-Sectional Analysis of University Students' Health Using a Digitised Health Survey. *Int J Environ Res Public Health.* 2020;17(9):3009. Published 2020 Apr 26. doi:10.3390/ijerph17093009
- Martinengo L, **Spinazze P** Car J. Mobile messaging with patients. *BMJ.* 2020 Mar 16;368:m884. doi: 10.1136/bmj.m884. PMID: 32179548.
- **Spinazze P**, Bottle A, Car J. Digital Health Sensing for Personalized Dermatology. *Sensors (Basel).* 2019 Aug 5;19(15):3426. doi: 10.3390/s19153426. PMID: 31387237; PMCID: PMC6696383.
- Rauwerdink A, **Spinazze P**, Gijsbers H, Molendijk J, Zwolsman S, Schijven MP, Chavannes NH, Kasteleyn MJ. Evaluation Approaches of Digital Health Technologies: A Scoping Review. *J Med Internet Res.* doi:10.2196/50251
- Jimenez G, **Spinazze P**, Matchar D, Koh Choon Huat G, van der Kleij RMJJ, Chavannes NH, Car J. Digital health competencies for primary healthcare professionals: A scoping review. *Int J Med Inform.* 2020 Nov;143:104260. doi: 10.1016/j.ijmedinf.2020.104260. Epub 2020 Aug 27. PMID: 32919345.



Curriculum Vitae

Pier Andrea Spinazze



Dr. Pier Andrea Spinazzé was born on 13 March 1986, in Johannesburg, South Africa. He earned his Bachelor of Medicine and Surgery (MBChB) from the University of Cape Town in 2010. During his medical studies, he undertook a research internship at Harvard University's Department of Public Health, focusing on the social ramifications of firearm use in the U.S., and completed a course in Neurobiology. In 2014, he completed a Master of Surgical Science (MSc) at the University of Edinburgh, presenting a thesis titled "To Tube or not to Tube? Pre-hospital Intubation in Traumatic Brain Injury: A Systematic Review."

Dr. Spinazzé gained extensive clinical experience as a Medical Intern at Helen Joseph Hospital Complex in South Africa, including work at Themba Lethu Clinic, the nation's largest antiretroviral treatment site. He served his community service as a Medical Officer in Surgery at Charlotte Maxeke Johannesburg Academic Hospital, where he was elected intern representative and coordinator. In this role, he supervised students and colleagues, led resuscitation teams in one of the busiest trauma units, performed minor operations, and consulted in plastic and trauma surgery.

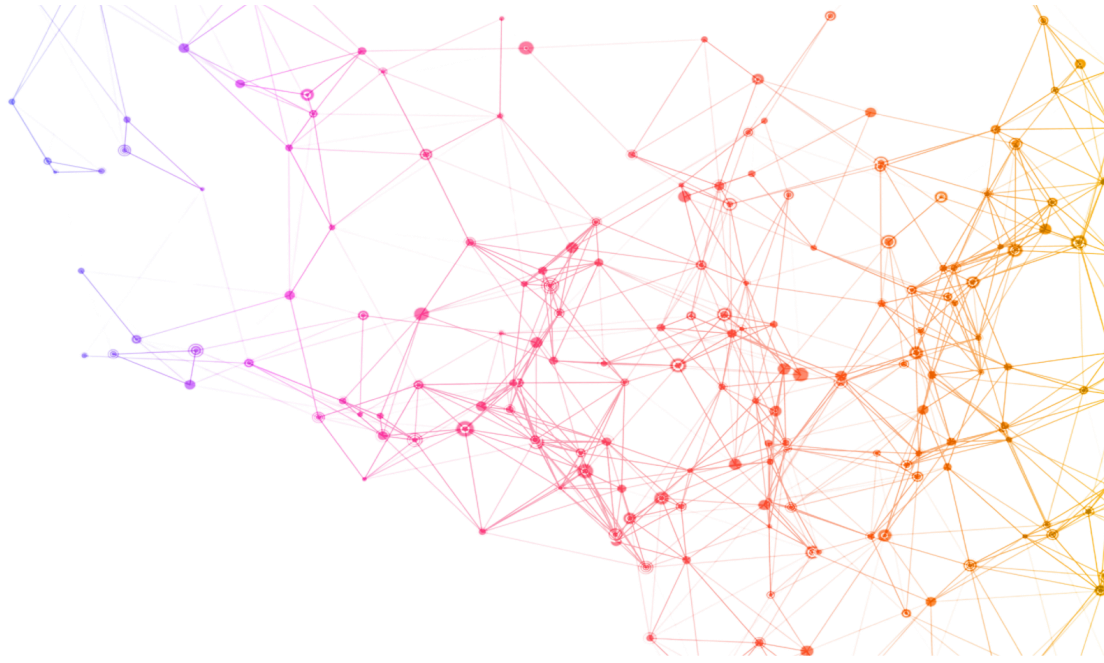
Expanding his expertise beyond clinical medicine, Dr. Spinazzé pursued an MBA at IE Business School in Madrid, specializing in international business administration, and participated in an exchange program at Kellogg Business School, focusing on healthcare strategy, financial decisions, and the biotech industry.

His academic career includes a role as a Research Associate at Imperial College London, where he focused on digital health and AI. He later joined NTU's Lee Kong Chian School of Medicine in Singapore, where he spearheaded projects in digital transformation, collaborated with the Ministry of Health Singapore, and advised the WHO on digital health policy.

As an entrepreneur, Dr. Spinazzé founded Passmed, an online medical education platform, and co-founded Bluum, a women's healthcare company. He also played a pivotal role at Dem Dx, where he led the development of a digital diagnostic support tool and forged strategic partnerships with organizations such as the NHS and CDC. His entrepreneurial ventures extend to business development through the Stanford Ignite program and the Antler accelerator.

In 2020 he started the scientific research described in this thesis under the guidance of Professor Niels Chavannes, Doctor Marise Kasteleyn and Doctor Jiska Aardoom.

His innovative research and entrepreneurial initiatives reflect his commitment to advancing healthcare through technology.



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This thesis marks the culmination of a deeply personal journey, and I wish to extend my heartfelt gratitude to those who have supported and guided me along the way.

I am sincerely grateful to my promotor, Prof. Niels Chavannes, for his unwavering support, insightful feedback, and continuous encouragement throughout the course of my PhD. I also wish to express my appreciation to my co-promotors, Dr. Marise Kasteleyn and Dr. Jiska Aardoom. Dr Kasteleyn's practical insights and structured approach consistently provided clarity during the critical stages of this journey. Dr. Aardoom brought a thoughtful and methodical perspective to the work, and her attention to detail helped refine many elements of the research. Collectively your support has been vital in bringing the final version to life.

Completing a PhD part-time while navigating professional and personal milestones has been both a privilege and a challenge. The internal drive required to pursue academic research alongside entrepreneurial ventures and family responsibilities has been considerable. This journey has spanned seasons of intense professional growth—including founding companies—as well as life-changing personal moments, including getting married and welcoming my son, Rafael. These experiences have added depth and perspective to my academic work, and I am grateful for the resilience they helped cultivate.

I would like to thank my family for their unwavering support. To my parents, thank you for instilling in me the values of hard work and curiosity. To my wife, your patience, encouragement, and understanding have been a constant source of strength. And to Rafael—although too young to read this now—your arrival during this journey reminded me daily of the future we are all working toward.

I also extend my appreciation to the support staff and colleagues within the department for their assistance in the practical aspects of this thesis.

This PhD has been a journey of academic inquiry, personal growth, and professional development. I am truly grateful to all those who have contributed to it in meaningful ways.