

# Sylvain Viguier

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+447402847991 • 6 years experience

Native French speaker • Fluent in English

## Work Experience

Jun 2017 – Present: Embedded Software Engineer at **Zühlke**. London, UK

Innovation and engineering consultancy

- Medical devices and Internet of Things
- Improved performance and UX for heart monitor device running custom yocto linux
- Delivered a connected dashboard system made of a node.js server and rpi clients

Jun 2015 – Jun 2017: Head of Technology at **Entia**. London, UK

Imperial college spin-out aiming at simplifying blood tests

- Headed a software and hardware development team of six
- Company management, recruitment, fundraised £2.5M, regulatory - ISO 13485, 62304
- C/C++ for ARM cortex, test automation in python, code review and release

Sept 2013 – Jun 2015: Research Associate at **UCL**. UK and Philippines

Member of the hunter-gatherer resilience project

- Multidisciplinary team augmenting anthropological fieldwork using new technology
- Complete project ownership from design to test, deployment and data processing
- Now working on publications as affiliate fellow - see publications list

Mar 2012 – Sep 2013: Embedded Software Engineer at **Qualcomm**. Farnborough, UK

Leading semiconductors and telecommunications products and services design

- Implemented the physical layer of GSM and LTE modems in embedded C/C++
- Customer support for handset design and optimisation
- Developed new features based on internal research and 3GPP technical specifications

## Technical Skills

- Expert in embedded C/C++
- IoT firmware and backend
- GSM, UMTS, LTE, LoRA, WIFI, BLE
- Python for data science and stats
- Lab work, experiment design
- Reporting, article writing
- Product development lifecycle
- Project planning, regulatory
- Agile, Git, SVN, JIRA, Confluence
- HTML/CSS/JS for web apps
- Linux web server configuration
- UI design with bootstrap and Qt

## Education

Sept 2006 – Dec 2011: **ESIEE Engineering**. Paris, France

MSc in Telecommunications and Signal Processing (Distinction)

Sept 2009 - Jun 2010: **BRUNEL University**. London, UK. Erasmus Exchange

MSc in Wireless Communication, Dissertation conducted with Motorola

## Interests

- London Music Hackspace since 2012, article in NIME 2014, see publications list
- Rock climbing, cycling, skiing
- Photography

# Publications

## Published

Page, A. E., Minter, T., **Viguier, S.**, and Migliano, A. B. (2018) Hunter-gatherer health and development policy: how the promotion of sedentism worsens the Agta's health outcomes. *Social Science and Medicine*, 197: 39-48.

Page, A. E., Chaudhary, N., **Viguier, S.**, Dyble, M., Smith, D., Salali, G., Thompson, J., Mace, R., and Migliano, A. B. (2017) Hunter-Gatherer Social Networks and Reproductive Success. *Scientific Reports*, 7: 1153.

Migliano, A. B., Page, A. E., Gómez-Gardeñes, J., **Viguier, S.**, Dyble, M., Thompson, J., Chaudhary, N., Salali, G., Smith, D., Strods, J., Latora, V., Thomas, M., Mace, R., Vinicius, L. (2017) High-resolution characterisation of hunter-gatherer interaction networks. *Nature Human Behavior*, 1(2): 1-6.

Page, A. E., **Viguier, S.**, Dyble, M., Smith, D., Chaudhary, N., Salali, G., Thompson, J., Vinicius, L., Mace, R., and Migliano, A. B. (2016) Reproductive trade-offs in extant hunter-gatherers suggest adaptive mechanism for the Neolithic expansion. *PNAS*, 113 (17): 4694-4699.

T. Murray-Browne, D. Aversano, S. Garcia, **Viguier S.**, D. Lopez, T. Sendon, P. Tigas, and K. Ziemianin. The cave of sounds: An interactive installation exploring how we create music together. In *NIME*, 2014.

## Under revisions

Page, A. E., **Viguier, S.**, Dyble, M., Smith, D., Chaudhary, N., Salali, G., Thompson, J., Mace, R., and Migliano, A. B. Why care? Testing adaptive hypotheses in Agta foragers. *Nature Human Behavior*