Sylvain Viguier

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Work Experience

Jun 2017 – Present: Senior Software Consultant at **Zühlke**. London, UK

Innovation and engineering consultancy

- Internal platform: Deep Learning training in the cloud, inference at the edge
- Intensive care monitor: Yocto Linux, UX improvement, data analysis in C++
- University of Zurich: Data Science in Python, Wearable device design

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

Imperial college spin-out simplifying blood tests

- Company management, recruitment, fundraising £2.5M, ISO 13485, 62304
- Head of an Agile software and hardware development team of six
- C/C++ for ARM cortex, test automation and data analysis in Python

Sept 2013 – Dec 2018: Research Associate at **UCL**. UK and Philippines

Hunter-Gatherer Resilience Project

- Multidisciplinary team augmenting anthropological populations studies
- Project ownership from design to test, deployment and data processing
- Analysis and write-up for publications

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

Leading semiconductors and telecommunications products and services design

- C/C++ for ARM-based chipset, physical layer of GSM and LTE modems
- Customer support for handset design and optimisation
- Develop new features based on internal research and 3GPP specifications

Technical Skills

- ➔ Team leading and mentoring
- ➔ Product development lifecycle
- ➔ Git, JIRA, Agile, Regulatory

- ➔ Embedded C/C++
- ➔ Sensors, Connectivity, IoT
- ➔ Lab work, Performance analysis

- ➔ Python, Pandas, Jupyter
- ➔ Keras, TensorFlow, TF Lite
- ➔ Experimental design, Publications

- ➔ Serverless backend
- ➔ Google Cloud Platform
- ➔ UX with Bootstrap and Qt/QML

Education

2018-2019: **Coursera**

Certified courses in Statistics, Machine Learning, Deep Learning and Google Cloud Platform

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

- Interactive art installations (IWM, V&A, Barbican)
- 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.

In Press

Page, A. E., **Viguier, S.**, Dyble, M., Smith, D., Chaudhary, N., Salali, G., Thompson, J., Mace, R., and Migliano, A. B.a (2019) Why care? Testing adaptive hypotheses in Agta foragers. *Nature Human Behavior.*

Under revisions

Migliano, A. B., Battiston, F., **Viguier, S.**, Page, A. E., Dyble, M., Schlaepfer, R., Smith, D., Astete, L., Ngales, M., Gomez-Gardenes, Latora, V., Vinicius, L. Hunter-gatherers multilevel sociality accelerates the evolution of cumulative culture. *Science Advances*.