

PERSONAL INFORMATION

Christopher Stewart



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Sex Male | Date of birth 18/10/1978 | Nationalities British/Hungarian

WORK EXPERIENCE

Apr 2007 - present

Earth Observation Consultant at the European Space Agency (ESA)

RSAC Ltd (c/o European Space Agency ESA/ESRIN)

Since 2007 Chris has been providing consultancy support to the Earth Observation Programmes Directorate of the European Space Agency, in the Department of Science, Applications and Future Technologies. He is based full time at ESA/ESRIN in Frascati, Italy.

Main tasks/responsibilities:

- Support to EO education, training and capacity building activities:
 - Organisation of workshops and training courses
 - Management and review of training projects (MOOCs, apps, etc)
 - Technical and management support to TIGER Capacity Building Facility
- Project Management of activations of the International Disasters Charter
- Coordination of research and demonstration projects and review of deliverables: e.g. Global Monitoring for Food Security (GMFS), Archaeological Earth Observation (ArchEO)
- Management of LEOWorks software development
- Support to international collaboration organisations, such as:
 - Committee on Earth Observation Satellites Working Group on Capacity Building and Data Democracy (CEOS WGCapD)
 - European Association of Remote Sensing Laboratories (EARSeL)
 - European Geosciences Union (EGU)

Business or sector Space, Earth Observation, Training

Mar 2005 – Apr 2007

Remote Sensing Project Scientist at Remote Sensing Applications Consultants (RSAC) Ltd

RSAC Ltd

From 2005 to 2007 Chris provided technical and project management support at RSAC Ltd, based in Alresford, UK.

Main tasks/responsibilities:

- Satellite image processing for Remote Sensing Control of Area-Based Subsidies projects in England and Wales.
- Technical and coordination support to various projects, such as:
 - ESA Coastchart
 - ESA Lowchart
 - Vegetation mapping and change detection projects funded by the British National Space Center (BNSC) and Countryside Council of Wales (CCW)

Business or sector Space, Earth Observation

Jan 2003 – Dec 2004

Temporary positions abroad

In this period Chris gained experience working abroad for the following projects/positions

- Support to capacity building activities in Kenya from July to December 2004. Attached to the PUMA training centre in Nairobi.
- Chalet host during ski season December 2003 to March 2004 in Meribel, France.
- English teacher in Budapest, Hungary, from January to December 2003.

EDUCATION AND TRAINING

2010 - 2017 (while working full time at ESA/ESRIN)

Doctor of Philosophy (PhD)

Archaeological Prospection using Spaceborne Synthetic Aperture Radar

Università degli Studi di Roma "Tor Vergata", Rome, Italy

2001 - 2002

Master of Science (MSc)

Remote Sensing and Image Processing

University of Edinburgh (Department of Meteorology), UK

1997 - 2000

Bachelor of Science (BSc)

2:1

Mathematics with Spanish

University of Stirling, UK

PERSONAL SKILLS

Mother tongue(s) English

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
Hungarian	C1	C1	C1	C1	C1
Italian	C1	C1	C1	C1	C1
Spanish	B1	B1	B1	B1	B1
French	A1	A1	A1	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

Having spent 10 years organising training events, participating in collaboration activities, and coordinating international teams and consortia for mainly ESA projects, Chris has developed excellent communication and interpersonal skills.

Organisational / managerial skills

Chris has frequently been delegated the organisation of a wide range of projects, some of these include:

- Project Management during activations of the International Charter "Space and Major Disasters" in which complex, critical disaster situations (e.g. floods, fires, earthquakes) need to be rapidly understood, communicated and effectively managed.
- Organisation of workshops and training courses: This requires much preparation, planning and coordination to ensure events run smoothly.
- Management on behalf of the relevant ESA Technical Officer of a broad scale of Earth Observation projects, usually involving international consortia, such as the ESA GMES (now Copernicus) Service Element project, Global Monitoring for Food Security (GMFS).

Computer skills

- Good command of Microsoft Office™ tools
- Familiarity with a range of Image Processing (IP) software and programming tools: Python, ENVI, IDL, ERDAS, ArcGIS, QGIS, Photoshop, Bilko, ESA software toolboxes (SNAP, PolSARPro, LEOWorks)

ADDITIONAL INFORMATION

Publications

- Stewart, C. (2017). "Detection of Archaeological Residues in Vegetated Areas Using Satellite Synthetic Aperture Radar." *Remote Sensing* 9(2): 118.
- Stewart C., A. Renga, V. Gaffney, G. Schiavon. (2016). Sentinel-1 bathymetry for North Sea palaeolandscapes analysis. *International Journal of Remote Sensing*, 37(3), 471-491.
- Stewart, C., R. Montanaro, M. Sala and P. Riccardi (2016). "Feature Extraction in the North Sinai Desert Using Spaceborne Synthetic Aperture Radar: Potential Archaeological Applications." *Remote Sensing* 8(10): 825.
- Stewart, C., K. Lemmens, M. Sala and G. C. Vittozzi (2016). "A Contribution of Satellite Radar to Archaeological Research in North Sinai, Egypt." *Archaeological Heritage & Multidisciplinary Egyptological Studies (AHMES)* 3: 11.
- Stewart C., K. Lemmens, M. Sala. (2015) Satellite Radar in Support to Archaeological Research in Egypt: Tracing Ancient Tracks Between Egypt and Southern Levant Across North Sinai. In "Archaeological Heritage & Multidisciplinary Egyptological Studies Volume 2", CNR ISMA, Series Editor Giuseppina Capriotti Vittozzi. Rome.
- Capriotti Vittozzi G., C. Stewart, K. Lemmens, B. Marcolongo. (2015) Possibili vie tra Nilo e Mar Rosso. Rapporto preliminare di un caso di studio interdisciplinare. In "Archaeological Heritage & Multidisciplinary Egyptological Studies Volume 2", CNR ISMA, Series Editor Giuseppina Capriotti Vittozzi. Rome.
- Stewart, C., M. Rast, F. Sarti and O. Arino (2015). "ESA activities in Earth Observation for Cultural Heritage applications." *International Journal of Heritage in the Digital Era* 4(3-4): 325-338.
- Stewart C. (2014) Assessment of SAR Configurations for Archaeological Survey in Desert Regions. EARSeL Symposium 2014, Warsaw, Poland. 16-20 June 2014.
- Stewart C., G. Schiavon. (2014) Satellite time series analysis to study the ephemeral nature of archaeological marks. European Geosciences Union, NP4.2 Satellite Time Series Analysis. Vienna, Austria. Apr/May. (poster)
- Stewart C., A. Di Iorio. (2014) Active Microwave Sensitivity to Archaeological Proxy Marks in the Area of Rome 2nd International Conference on Remote Sensing and Geo-information of Environment (RSCy2014). Paphos, Cyprus. April, 2014.
- Stewart C., R. Lasaponara and G. Schiavon. (2014) Multi-Frequency, Polarimetric SAR Analysis for Archaeological Prospection. *International Journal of Applied Earth Observation and Geoinformation*.
- Stewart C., S. Gusmano, M. Fea. (2013) Satellite information in support of archaeological research in Egypt. "Italian Days in Aswan" Workshop. Aswan, Egypt. Nov. 2013.
- Fea M., C. Stewart, S. Gusmano. (2013) How can archaeological research benefit from remote sensing. "Italian Days in Aswan" Workshop. Aswan, Egypt. Nov. 2013.
- Stewart C. (2013) Satellite Remote Sensing for Archaeological Applications. ESA Living Planet Symposium. Edinburgh, UK. (poster)
- Stewart C., R. Lasaponara and G. Schiavon. (2013) ALOS PALSAR in desert regions of North Sinai: the case study of Pelusium. 4th EARSeL Workshop on Cultural and Natural Heritage. Matera, Italy.
- Stewart C., A. Di Iorio, G. Schiavon. (2013) Analysis of the Utility of COSMO-SkyMed Stripmap to Detect Buried Archaeological Features in the Region of Rome, Experimental Component of WHERE Project. Proceedings of 4th EARSeL Workshop on Cultural and Natural Heritage. Matera, Italy.
- Stewart C., R. Lasaponara and G. Schiavon. (2013) ALOS PALSAR Analysis of the Archaeological Site of Pelusium. *Archaeological Prospection* 20, 109-116.
- Stewart C. and G. Schiavon. (2013) Analysis of the Application of PolSAR, at Multiple Frequencies, for Archaeological Prospection. The 6th International Workshop on Science and Applications of SAR Polarimetry and Polarimetric Interferometry (PolInSAR). Frascati, Italy. (poster)
- Stewart C. (2013) Remote Sensing Survey of Saddina, chapter in *La Ville Médiévale de Saddina un Site Archéologique a Valoriser dans le Préif au Nord de Fès. Une publication de la Faculté des Lettres et des Sciences Humaines Saïs, Université Sidi Mohamed Ben Abdellah sous la direction de Brahim Akdim, Virgilio Martinez Enamorado et Grigori Lazarev.*
- Stewart C., G. Capriotti, M. Fea, S. Gusmano, R. Salzano. (2012) Preliminary considerations on the application of satellite remote sensing to archaeological research in Egypt. International Conference "Reading Catastrophes". Consiglio Nazionale delle Ricerche (CNR), Rome, Italy. Dec. 2012
- Capriotti Vittozzi G., C. Stewart, M. Fea, S. Gusmano, R. Salzano. (2012) Satellite remote sensing in support to archaeological investigation in Egypt: some methodological remarks. 22nd UN/IAF Workshop on "Space Technologies Applied to the Needs of Humanity: Experience from Cases in the Mediterranean Area" Naples, Italy, Sep. 2012
- Stewart C., R. Lasaponara and G. Schiavon. (2012) Potential of Quad Pol C-band, Single and Dual Pol L-band SAR to Identify Buried Archaeological Features. 3rd EARSeL Workshop on Remote Sensing for Archaeology and Cultural Heritage Management. Ghent, Belgium.
- Stewart C., G. Schiavon, R. Lasaponara. (2012) Seasonal and yearly polarimetric time series analysis of Radarsat 2 quad pol data over the area around Rome. European Geosciences Union. Vienna, Austria.
- Sarti F., M. Hernandez, J. C. Bigot, S. Dransfeld, A. B. Ruescas, A. Debien, C. Stewart, N. Dore, J. Patruno. (2010) Educating in Sustainable Development and World Heritage Conservation Using Space Technologies. Toulouse Space Show, Toulouse, France.

