

# Europass Curriculum Vitae

## Personal information

Surname(s) / First name(s)	<b>Kalwar, Santosh Kumar</b>
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Nationality(-ies)	Nepalese Permanent resident of Finland
Date of birth	September 07, 1982
Gender	male

## Education

2009–2014	Doctor of Science (Technology), Lappeenranta University of Technology, Lappeenranta, Finland Completed doctorate ( <i>Tekniikan tohtori</i> - TkT) with several scholarly publications in highly competitive venues
2007–2008	Master of Science (Technology), Lappeenranta University of Technology (LUT), Lappeenranta, Finland Completed Master's degree with the weighted grade point average of 3.44 on a scale of 1-5 and received the grade 4 for Master's thesis on a scale of 1-5
2002–2006	Bachelor of Engineering (Computer Science and Engineering), Visvesvaraya Technological University (VTU), Bangalore, India First Class with Distinction i.e., above 70% cumulative score in all eight semesters, which is US Grade Point Equivalent of 3.5- 4.0 with A

## Ph.D. Thesis

Title	<i>Conceptualizing and Measuring Human Anxiety on the Internet (Internetin käyttäjien kokeman ahdistuksen käsitteellistäminen ja mittaaminen)</i>
Opponent	Dr. Praminda Caleb-Solly
Pre-examiners	Professor Mauri Kaipainen and Professor Katherine Blahski
Supervisors	Professor Jari Porras and Associate professor Dr. Kari Heikkinen
Description	My research explores conceptualizing and measuring human anxiety on the Internet. I draw upon my training in computer science, HCI and other related fields to create, design, and validate measurement scales, and tools that can mitigate anxiety. In my Ph.D. dissertation, I developed empirically suitable scales and tools, which help researchers and people involved in different practices to understand and measure anxiety experienced on the Internet. My dissertation research also showed that Internet use and anxiety vary in line with gender and age.

## Experience

March 2006–May 2006	<p>Project Trainee, CBK Infotech India (P) Ltd., Bangalore, India</p> <p>As a part of trainee project, I was responsible for - Planning project - Budget and specification management - Questionnaire development - Managing, monitoring and reporting on project - Timely delivery of data to stakeholders - Making sure that all aims of the project are met - Providing independent advice on the management of project.</p>
September 2006–May 2007	<p>Assistant Lecturer, Khwopa Engineering College, Bhaktapur, Nepal</p> <p>Taught 52 students web programming techniques course. Teaching session was done in English. Most students enjoyed and successfully passed the course in their final exams. Students were studying for final year Bachelor of Engineering degree in Electronics and Communications.</p>
June 2007–August 2007	<p>Technical Support Representative, WorldLink Communications Pvt. Ltd., Kathmandu, Nepal</p> <p>As part of this job, my main responsibility was to answer to customer queries and provide remote installation, training and helping maintain their Internet connectivity at their homes or offices.</p>
July 2008–December 2008	<p>Thesis Worker, Communication Engineering Laboratory, Lappeenranta University of Technology, Lappeenranta, Finland</p> <p>Studied human behaviour on the Internet. Focused on human-computer interaction area in context to the Master's thesis. Identified several Internet anxiety types based on literature, qualitative and quantitative data. The work was published in <i>Potentials</i>, <i>IEEE</i> journal paper.</p>
October 2008–December 2008	<p>Trainee researcher, Office of the Chief Technology Officer, Nokia Oyj, Ruo- holahti, Helsinki, Finland</p> <p>I was responsible for conducting feasibility study of Javascript framework for search functionality implementation, graphics editing and service creation portal development. The work generated design insights and a patent application was granted for viewing documents in a database.</p>
January 2009–December 2009	<p>Assistant researcher, Communication Engineering Laboratory, Lappeenranta University of Technology, Lappeenranta, Finland</p> <p>Conducting research and study related to user-centric design, human-computer interaction, and usability of systems and products.</p>
January 2010–December 2013	<p>Researcher, Communication Software Laboratory, Lappeenranta University of Technology, Lappeenranta, Finland</p> <p>In short, I conducted research and teaching duties on “<i>Internet anxiety</i>” at Communication Software Laboratory. Taught 35 students user centric service design course. The feedbacks received from the students about the course taught were mostly positive. Communication Software Laboratory is a part of Department of Software Engineering and Information Systems, where basic research and applied research are conducted.</p>
August 2013–October 2013	<p>Lead Developer, Trinnect Oy, Finland</p> <p>Lead a team of three for designing and developing health related native application in Android platform voluntarily. Trinnect Oy is a startup company where it envisions developing state-of-the-art tele- and mobile healthcare technologies to revolutionize the way medical consultation is done.</p>

**Funding obtained over  
the last five years  
(grants  $\geq$  4 000 € )**

East Finland Graduate School in Computer Science and Engineering (ECSE)  
Awarded scholarship and grant expenses related to research and doctoral studies at LUT, Lappeenranta, Finland (2010 to 2012)  
Grant for finishing doctoral studies, Nokia Foundation Scholarship, 5 000 € (2011)  
Scholarship for fastest doctoral studies completion, Lahja ja Lauri Hotisen rahasto, 4 000 € (2011)  
Scholarship for doctoral studies and Ph.D. thesis, Finnish Foundation for Technology Promotion (Tekniikan edistämissäätiö), 5 000 € (2012)  
Research Grant to finish Ph.D. thesis, Research Foundation of Lappeenranta University of Technology, 15 732 € (2013)

**Awards**

Awarded medal of honour for becoming 3rd topper in a class of School Leaving Certificate (S.L.C) at Chitwan English Secondary Boarding School.  
Ranked among 1% in the batch of 450 students for course Discreet Mathematical Structure and Graph Theory  
Awarded Finnish National Epic, "Kalevala," The First Lyyra Prize For Content Creation, Lyyra, Finland (2007)  
Awarded publication bonuses for an excellent job performance based on yearly internal evaluations.  
Codility Silver Award (Oxygenium 2014), Awarded Codility Silver Award for delivering an acceptable solution to one of the programming challenges. Codility assesses programming skills by applying actual programming tasks (2014)

**Languages**

Mother tongue(s)

**Nepalese, Bihari**

*Self-assessment  
European level<sup>(\*)</sup>*

**English**  
**Finnish**  
**Swedish**  
**Hindi**  
**Sanskrit**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient user	C1 Proficient user	C1 Proficient user	C1 Proficient user	C2 Proficient user
A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user
A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user
C1 Proficient user	C1 Proficient user	C2 Proficient user	C2 Proficient user	C2 Proficient user
A2 Basic user	A1 Basic user	B1 Independent user	B1 Independent user	C1 Proficient user

*(\*) Common European Framework of Reference (CEF) level*

**Skills**

OS

Linux, Unix, Windows 98/N/XP/Vista/7/8, Macintosh OS X

Programming	JAVA, C/C++, C#, scripting, Perl, PHP, Shell
Web technologies	XHTML, HTML/5, AJAX, JavaScript, CSS, jQuery
Database	MySQL, Oracle 9i, SQL
Framework	VAADIN, .NET
Scientific	Matlab, SPSS, PSPP, typography, L <sup>A</sup> T <sub>E</sub> X
Research	Qualitative and quantitative empirical methods, observational, ethnography, usability, contextual inquiry, focus group, interviews (structured, semi-structured), experience sampling method, usability testing, heuristic analysis, GOMS, cognitive walkthrough, wizard of oz., survey design & data analysis
Design methods	User-centered design, UX architectures and design specifications, ideation, affinity diagramming, scenarios, personas, experience prototyping, user enactment, technology and cultural probes, proof-of-concept, participatory design, information architecture
Prototyping	Wood working, sketching, high/low fidelity prototyping, paper prototyping, experience prototyping, Flash, Photoshop, Visio, Illustrator, Omnigraffle, Dreamweaver
<b>Transferable skills</b>	
Project skills	Project management, team working, problem solving, organizing meetings and events
Entrepreneurship	Innovation, networking, thought leadership, actively looking for funding, international experience
Communication skills	Writing, public speaking, publicity and PR, web and social media presence
Knowledge and information skills	Research, teaching and training, writing reports, ICT
<b>Publications (2013 to Present)</b>	
	[1] Kalwar, S. K., Heikkinen, K., and Porras, J. (2013a). Internet anxiety: Myth or reality? In Kurosu, M., editor, Human-Computer Interaction. Towards Intelligent and Implicit Interaction, volume 8008 of Lecture Notes in Computer Science, pages 431–440. Springer Berlin Heidelberg.
	[2] Kalwar, S. K., Heikkinen, K., and Porras, J. (2013b). Mias: Modified internet anxiety scale. In Proceedings of International Conference on Making Sense of Converging Media, number 4, pages 106:106–106:109. ACM.
	[3] Kalwar, S. K., Heikkinen, K., and Porras, J. (2013c). Quantifying cultural attributes for understanding human behavior on the internet. In Ozok, A. and Zaphiris, P., editors, Online Communities and Social Computing, volume 8029 of Lecture Notes in Computer Science, pages 40–49. Springer Berlin Heidelberg.
	[4] Kalwar, S. K., Heikkinen, K., and Porras, J. (2013d). Sword: A concept application for mitigating internet terminology anxiety. In Kurosu, M., editor, Human-Computer Interaction. Applications and Services, volume 8005 of Lecture Notes in Computer Science, pages 239–248. Springer Berlin Heidelberg.
	[5] Kalwar, S., (2014). Conceptualizing and measuring human anxiety on the Internet, Ph.D. Thesis, Acta Universitatis Lappeenrantaensis, research series number 575, ISBN 978-952-265-584-4

## Patent granted

Method and apparatus for viewing documents in a database, US2010293182 (A1) with Anssi Kalevi Karhinen, Otso I. Alanko, Oskari O. Koskimies, Mikko T. Tarkiainen, Tanja T. Vuoksima, Turka I. Aijala

## Volunteer Experiences

Program Committee	Program Committee Member, Short Papers, 27th International British Computer Society Human Computer Interaction Conference (BHCI'13)
Editorial Review Board Member	Journal of Computer Engineering and Science (2012 to Present)
Reviewer for Journals	Computers in Human Behavior (2008 to Present) Cyberpsychology, Behavior, and Social Networking (2010 to Present) IEEE Potentials (2008 to Present) World Applied Science Journal (2012 to Present)
Reviewer for Conferences	The ACM Conference on Computer Supported Cooperative Work and Social Computing (CSCW) (2012 to Present) Engineering Interactive Computing Systems (EICS) (2012 to Present) The ACM Interactive Tabletops and Surfaces Conference (ITS) (2012 to Present) The Conference on Human-Computer Interaction with Mobile Devices and Services (MobileHCI) (2012 to Present) The IFIP TC13 Conference on Human-Computer Interaction (INTERACT) (2013 to Present) Conference on Human Factors in Computing Systems (CHI) (2010 to Present) International Conference on Intelligent User Interfaces (IUI) (2010 to Present) The Interactive Tabletops and Surfaces 2012 Conference (ACM ITS) (2012 to Present) Annual BCS HCI Conference (HCI) (2012 to Present) Nordic Conference on Human-Computer Interaction (NordiCHI) (2012 to Present) The Designing Interactive Systems conference (DIS) (2012 to Present) The Asia Pacific Conference on Computer Human Interaction (APCHI) (2012 to Present) IEEE Colloquium on Humanities, Science and Engineering Research (CHUSER 2012) IEEE Symposium on Computer Applications and Industrial Electronics (ISCAIE 2012) IEEE Symposium on Computers and Informatics (ISCI) (2011-2013) IEEE Conference on Open Systems (2011) WSEAS International Conference on Education and Educational Technology (2012) IEEE Symposium on Industrial Electronics & Applications (ISIEA 2011) IEEE Business Engineering and Industrial Applications Colloquium (2012) International Conference on Computer Applications and Industrial Electronics (2011) IEEE Student Conference on Research and Development (2011) World Scientific and Engineering Academy and Society (WSEAS) (2010 to Present)
Workshop	7th Middleware for Network Eccentric and Mobile Applications Workshop (2008)
Student Volunteer	Summer School on Telecommunications (SSOTC) (2008, 2011)

## Supervision and Independent Mentoring

Master's Theses

During my academic career I have had the possibility to be the independent mentor of four Master's thesis works (Kamal Panthi 2012, Udhayan Timilsina 2012, Madan Kadariya 2012, Nikki Joyti Shrestha 2014).

## Certification

Computer Engineering

Registered Engineer, Nepal Engineering Council, License #: 1024 'A' Computer, granted rights to use the prefix: "Er." (2006 to Present)

## Memberships

IEEE Member (2009 to Present)  
ACM Student Member (2010 to Present)  
ACM SIGCHI (2012 to Present)  
ACM SIGCHI FINLAND (2012 to Present)  
IADIS Student Member (2009-2012)  
Vice President for Incoming exchange students (AIESEC) Finland (2009)  
Microsoft Student Partner (MSP) Finland (2008-2009)

## Interests

Adventure sports

I like practicing adventure sports like bungee jumping, and rock climbing, and have been a boy scout for five years.

Travelling

I love travelling around the world.

Cricket

I played several district level and a National level Cricket game for Nepal. I have been awarded with a "Man of the Match" title and several local, municipality, and district level certificates, trophies and medals.

Reading and writing

I'm a voracious reader. I love to read and write poems, fiction, memoirs and non-fiction. My recent fiction book is "*That's My Love Story*" published by Mahaveer Publishers, New Delhi.

## Outreach

Recently, the results of my doctoral dissertation were in a local and national news, where the Finnish press wrote about it a lot. To diffuse my findings, I have actively engaged in knowledge transfer to the public, including dozens of columns and articles in newspapers and magazines, presentations aimed at the general public and visited in high schools.