

Sergio Guadarrama's Curriculum Vitae

Visiting Research Scholar
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EDUCATION

- 2007 Ph.D. *suma cum laude*, Computer Science and Artificial Intelligence, Technical University of Madrid, Spain.
- 2002 M.Sc. *cum laude*, Computer Science and Artificial Intelligence, Technical University of Madrid, Spain.
- 2000 B.Sc. *cum laude*, Computer Science, Technical University of Madrid, Spain.

ACADEMIC AND RESEARCH EXPERIENCE

- 2010-Pres Visiting Research Scholar, Computer Science Division, University of California, Berkeley, USA.
- 2009-Pres Affiliated Professor, Master in Soft Computing and Intelligent Data Analysis, University of Oviedo, Mieres, Spain.
- 2008-2010 "Juan de la Cierva" Researcher, European Centre for Soft Computing, Mieres, Spain.
- 2007-2008 Postdoctoral Researcher, European Centre for Soft Computing, Mieres, Spain.
- 2006-2007 Lecturer, European Master in Computational Logic at Technical University of Madrid, Spain.
- 2006-2007 Lecturer, Artificial Intelligence Department, Technical University of Madrid, Spain.
- 2005-2006 Graduate Student Instructor, Artificial Intelligence Department, Technical University of Madrid, Spain.
- 2004-2005 Graduate Student Instructor, Computer Science Department, University Rey Juan Carlos, Mostoles, Spain.
- 2003-2004 Visiting Student Researcher, Electrical Engineering and Computer Science Department, University of California, Berkeley, CA.
- 2000-2004 Graduate Research Fellow, Artificial Intelligence Department, Technical University of Madrid, Spain.
Advisor: Prof. Enric Trillas.
- 2000 Graduate Research Assistant, Intelligent Systems Lab, Technical University of Madrid, Spain.
Supervisor: Prof. Ana Garcia Serrano.

AWARDS, FELLOWSHIPS AND HONORS

- 2010 Received scholarship from the Spanish Education Department to conduct research at the University of California, Berkeley, Oct. 2010 to Oct. 2011.
- 2008 "Juan de la Cierva" Early Career Award. Considered one of the top 10 most promising young researchers in Computer Science by the Spanish Department of Science and Innovation.
- 2008 "Best Doctoral Dissertation Award of 2006-2007" in Computer Science by the Technical University of Madrid, (the Computer Science School is consistently ranked number one in Spain).
- 2004 Received a grant from the Doctoral Mentoring Program AAMAS 2004 to attend the Agent and Multi-Agent Systems Conference in New York, Jul. 2004.
- 2003 Received scholarship from the Spanish Education Department to conduct research at the University of California, Berkeley, Aug. 2003 to Jun. 2004.

- 2003 Received a grant from the AgentCities project funded by the European Union to attend the Fifth European Agent Systems Spring School 2003 and the AgentCities information day iD3.
- 2001 Received a Ph.D. Fellowship from the Spanish Education Department, under the supervision of the Prof. Enric Trillas, 2001 to 2004.
- 2000 Received a research grant from the Technical University of Madrid and the European Union to Work on the ADVICE project (Virtual Assistant for the Customer in Digital Markets), collaborating with Prof. Ana Garcia-Serrano, Nov. 2000 to Apr. 2001.

PH.D. THESIS

- ◇ “**A contribution to Computing with Words/Perceptions**”, Advisor: Prof. Enric Trillas. “Best Doctoral Dissertation Award” of 2006-2007 in Computer Science by the Technical University of Madrid.

MAJOR RESEARCH GRANT RECEIVED

- ◇ “Smart Bees: Learning Language in a semi-supervised environment”, PI: Sergio Guadarrama, (JCI-2008-3531). \$150,000, Nov. 2008 to Nov. 2011, (Principal Researcher)
Funded by Spanish Department of Science and Innovation and the European Social Fund under program ‘Juan de la Cierva’

RESEARCH PROJECTS PARTICIPATION

- ◇ “SCAIWEB-2: Retrieval, Organization and Management of Web information using Soft-Computing”. PI: Jose Angel Olivas (PEIC09-0196-3018). \$90,000 Apr 2009 to Apr. 2012, (Research Member).
- ◇ “SCAIWEB: Systems to access Web information based on Soft-Computing”. PI: Jose Angel Olivas (PAC06-0059). \$100,000 May 2006 to Dec. 2008, (Research Member).
- ◇ “Soft Computing Techniques for Computing with Words, oriented to Perceiving Systems”. PI: Julio Gutierrez-Rios (TIN2005-08943-C02-01) \$210,000 Nov. 2005 to Oct. 2008, (Research Member).
- ◇ “Network about Soft Computing and its technological and business applications (RESCATE)”. PI: Jose L. Verdegay (TIN2005-24790-E), Jan. 2007 to Dec. 2007, (Research Member).
- ◇ “BeMySearch: Concept-based Search Engine for Multimedia” PIs: Masoud Nikravesh and Tomohiro Takagi, (Visiting Student Researcher).
- ◇ “Hardware/Software Environment for the design and development of high performance applications of the fuzzy logic” (TIC2000-1420), Dec. 2001 to Jun. 2004, (Graduate Student Researcher).
- ◇ “Design of new models for fuzzy rule systems”. PI: Julio Gutierrez-Rios (PB98-1379-C02-02), Sep. 2000 to Dec. 2002, (Graduate Student Researcher).
- ◇ “ADVICE - Virtual Assistant for the Customer in Digital Markets”. PI: Ana Garcia-Serrano (IST-1999-11305). V Program Marco of European Union. Nov. 2000 to Apr. 2001, (Graduate Student Researcher).

ACADEMIC SERVICE

- ◇ Vice-Chair of the Task force in Computing with Words at Computational Intelligence Society (IEEE).
- ◇ Organizer of the Special Session on Computing with Words in the WCCI 2010 Conference, Barcelona.
- ◇ Co-Organizer of the Special Session on Linguistic Descriptions of Visual Information in the WCCI 2010 Conference, Barcelona.
- ◇ Member of the Organizing Committee of the 4th International Workshop on Genetic And Evolutionary Fuzzy Systems (GEFS 2010).

- ◇ Organizer of the Special Session on Computing with Words, Actions and Perceptions in the IFSA/EUSFLAT 2009 Conference.
- ◇ Member of IEEE and of IEEE Computational Intelligence Society.
- ◇ Member of the Organizing Committee of the XIV Spanish Conference of Fuzzy Technology and Fuzzy Logic ESTYLF 2008.
- ◇ Organizer of the 2nd International Summer Course on Soft Computing: Intelligent Data Analysis in the European Centre for Soft Computing.
- ◇ Ph.D. Committee membership: "Elements for analysis of software engineering methods based on their complexity and uncertainty" Nelson Medinilla, Advisor: Xavier Ferré.
- ◇ Serving as reviewer for the following journals: IEEE Transactions on Fuzzy Systems, Information Sciences, IEEE Computational Intelligence Magazine, International Journal of Approximate Reasoning, Fuzzy Sets and Systems, Computational Statistics and Data Analysis, International Journal of Applied Intelligence, International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems, International Journal of Human-Computer Studies and Mathware & Soft Computing.
- ◇ Serving as reviewer for the following conferences: World Conference in Computational Intelligence (WCCI'10), Inter. Workshop on Genetic And Evolutionary Fuzzy Systems (GEFS 2010), Spanish Conference on Fuzzy Logic and Technologies (ESTYLF'10), Inter. Conference on Information Processing and Management of Uncertainty Knowledge Based Systems (IPMU'10).

INVITED TALKS

1. "Learning meanings in the Smart-Bees project", ECSC Seminar at the European Centre for Soft Computing, Mieres, Oct. 2009.
2. "Learning Syntax and Semantics from web-users in the Smart-Bees project", BISC Seminar at the University of California, Berkeley, Sep. 2009.
3. "Learning Syntax and Semantics of descriptions of shapes from web-users", EECS Seminar at the University of Southern California, Los Angeles, Sep. 2009.
4. "On Computing with Words, Actions and Perceptions (CW-AP)", BISC Seminar at the University of California, Berkeley, Sep. 2008.
5. "Computational tools for the analysis of fuzzy concepts", Computing with Words and Perceptions Seminar at the European Centre for Soft Computing, Jul. 2008.
6. "Three topics within Computing with Words, Actions and Peceptions (CW-AP)", European Centre for Soft Computing, May 2008.
7. "Wash-machines, water-cleaner and helicopters", Cajastur and Science at Cultural Center of Cajastur, Apr. 2008.
8. "Soft Computing for Information Retrieval in the Web", 2005 EUSFLAT-LFA Conference, Sep. 2005.
9. "Conjecturing machines?", Spanish Science and Technology Museum, Apr. 2005.
10. "Intelligent search in Internet", Spanish Science and Technology Museum, Apr. 2002.

PUBLICATIONS (IN REVERSE CHRONOLOGICAL ORDER)

Pending

1. "A (naïve) glance at Soft Computing", E. Trillas, C. Moraga and S. Guadarrama, International Journal of Computational Intelligence Systems (In press).
2. "Approximate Robotic Mapping from sonar data by modeling Perceptions with Antonyms in Fuzzy Logic", S. Guadarrama and A. Ruiz-Mayor, Technical Report FSC-2008-14 European Centre for Soft-Computing, 2008 (Accepted by the Journal of Information Sciences).
3. "A first inquiry on semantic-based models of *And*", S. Guadarrama, E. Renedo, E. Trillas and I. Garcia-Honrado, Technical Report FSC-2009-9 European Centre for Soft-Computing, 2009 (Submitted to the Journal of Information Sciences).

4. "Collecting Fuzzy Perceptions from Non-experts Users", J.B. Tolosa, S. Guadarrama, Technical Report FSC 2009-23 European Centre for Soft-Computing, 2009. (Accepted in the WCCI'10 Conference).
5. "Using Soft Constraints to learn Semantic Models of descriptions of shapes", S. Guadarrama, D.P. Pancho, Technical Report FSC 2009-22 European Centre for Soft-Computing, 2009. (Accepted in the WCCI'10 Conference).
6. "Syntax learning for the description of scenes composed of geometric shapes", S. Guadarrama, D. Perez, Technical Report FSC 2009-21 European Centre for Soft-Computing, 2009. (Accepted in the WCCI'10 Conference).

2010

7. "Fuzzy representations need a careful design", E. Trillas and S. Guadarrama, International Journal of General Systems, Volume 39, Issue 3 April 2010 , pages 329 - 346.
8. "Learning syntax to describe scenes composed by geometric figures" (in Spanish), D. Perez, S. Guadarrama, Actas del XV Congreso Español sobre Tecnologías y Lógica Fuzzy, Huelva, Spain, Feb. 2010, pages 49-54. (Best Student paper).
9. "What Computing with Words means to me", J. Mendel, L. Zadeh, E. Trillas, R. Yager, J. Lawry, H. Hagrass, and S. Guadarrama, IEEE Computational Intelligence Magazine vol 5 (1), pages 20-26.

2009

10. "Crisp sets as classes of discontinuous fuzzy sets", E. Trillas, I. Garcia-Honrado, S. Guadarrama and E. Renedo, International Journal of Approximate Reasoning vol 50, pages 1298-1305.
11. "Using Concept-Analyzer for comparing concepts", S. Guadarrama, Proceedings of the 3rd Inter. Conf. on Semantic Computing (ICSC'09), 563-564, Berkeley, USA, Sept. 2009.
12. "Computing with Actions: The case of driving a car in a simulated car race", S. Guadarrama, Proceedings of the 2009 IFSA World Conference, ESFLAT Conference (IFSA-EUSFLAT'09), 1410-1415, Lisbon, Portugal, Jul. 2009.
13. "Evaluating premises, partial consequences and partial hypotheses", I. García-Honrado, E. Trillas, S. Guadarrama and E. Renedo, Proceedings of the 2009 IFSA World Conference, ESFLAT Conference (IFSA-EUSFLAT'09), 897-902, Lisbon, Portugal, Jul. 2009.
14. "A new approach to fuzzy location of cephalometric landmarks in craniofacial superimposition", O. Ibáñez, O. Cordón, S. Damas, S. Guadarrama and José Santamaría, Proceedings of the 2009 IFSA World Conference, ESFLAT Conference (IFSA-EUSFLAT'09), 195-200, Lisbon, Portugal, Jul. 2009.

2008

15. "Concept-Analyzer: A tool for analyzing fuzzy concepts", S. Guadarrama and M. Garrido, Proceedings of the 2th Inter. Conf. on Information Processing and Management of Uncertainty Knowledge Based Systems (IPMU'08), 1084-1089, Torremolinos, Spain, Jun. 2008.
16. "Tuning a Fuzzy Racing Car by Coevolution", S. Guadarrama and R. Vazquez, Proceedings of the 3rd Inter. Workshop on Genetic and Evolving Fuzzy Systems (GEFS'08), 59-64, Witten-Bommerholz, Germany, Mar. 2008.
17. "AFL: Agents with Fuzzy Language in Ciao Prolog", S. Guadarrama Research Report FSC 2008-23, European Centre for Soft-Computing, 2008.

2007

18. "A contribution to Computing with Words/Perceptions", Ph.D Thesis, S. Guadarrama, Advisor: Prof. Enric Trillas. Technical University of Madrid. (Available online at: <http://oa.upm.es/448/>)
19. "On Computing Antonyms", E. Trillas, C. Moraga, S. Guadarrama, S. Cubillo and E. Castañeira, *Forging New Frontiers: Fuzzy Pioneers I*, Ed. M. Nikraves, L. Zadeh and J. Kacprzyk, 133-153, Springer, 2007.
20. "On Fuzzy Set Theories", A. Pradera, E. Trillas, S. Guadarrama and E. Renedo, *Fuzzy Logic*, Ed. P.P Wang and D. Ruan, 15-47, Volume 215, Springer, 2007.
21. "Robust Gesture Recognition using Prediction-Error-Classification Approach", S. Guadarrama and G. Bailador, Proceedings of IEEE Conference on Fuzzy Systems 2007 (FUZZ-IEEE-07), 1775-1781, London, United Kingdom, Jul. 2007.

2006

22. "Fuzzy Sets vs Language", E. Trillas, E. Renedo and S. Guadarrama, *Computational Intelligence: Theory and Practice*, Ed. B. Reusch, 353-366, Springer September 2006.
23. "Some fuzzy counterparts of the language uses of And and Or", S. Guadarrama, E. Trillas and E. Renedo, *Computational Intelligence: Theory and Practice*, Ed. B. Reusch, 335-352, Springer September 2006.
24. "Studying fuzzy modus ponens", Alsina, C. and Guadarrama, S. and Renedo, E. and Trillas, E., Fuzzy Information Processing Society, 2006. NAFIPS 2006. Annual meeting of the North American, 426-429, Montreal, 2006.
25. "Gesture recognition using a neuro-fuzzy predictor", Bailador, G. and Triviño, G. and Guadarrama, S., International Conference of Artificial Intelligence and Soft Computing. Acta press, 2006.
26. "Classes of T-conditionals and fuzzy inference", Trillas, E. and Guadarrama, S. and Renedo, E., Fuzzy Information Processing Society, 2006. NAFIPS 2006. Annual meeting of the North American, 490-492, Montreal, 2006.

2005

27. "What about fuzzy logic's linguistic soundness?", E. Trillas and S. Guadarrama, *Fuzzy Sets and Systems* 156 (3): 334-340, 2005.
28. "Fuzzy Thesauri for and from the WWW", M. De Cock, S. Guadarrama and M. Nikraves, *Soft Computing for Information Processing and Analysis*, Ed. M. Nikraves, L. Zadeh and J. Kacprzyk, 275-284, Vol 164, Springer, 2005.
29. "Evaluating Ontology Based Search Strategies", C. Loer, A. Singh, A. Cheung, S. Guadarrama and M. Nikraves, *Soft Computing for Information Processing and Analysis*, Ed. M. Nikraves, L. Zadeh and J. Kacprzyk, 189-202, Vol 164, Springer, 2005.
30. "A reflection on the use of And", S. Guadarrama and E. Renedo, Proceedings of the 4th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT 2005), 571-575, Barcelona, Spain, Sep. 2005.

2004

31. "Fuzzy Prolog: a new approach using soft constraints propagation", S. Guadarrama, S. Munoz and C. Vaucheret, *Fuzzy Sets and Systems* 144 (1): 127-150, 2004.
32. "Fuzzy Consensus in Multi-Agent Systems", S. Guadarrama, Autonomous Agents and Multi-Agent System AAMAS-2004, Doctoral Mentoring Program of AAMAS, 5-6, New York, USA, Jul. 2004.

33. "The Automatic Construction of Fuzzy Ontologies for Search in the WWW and The Use of Fuzzy Spiders for the Detection of Objects in Images", M. Nikravesh, T. Takagi, M. De Cock and S. Guadarrama, 2004 EECS Research Summary, Ed. California University, Berkeley, 135-139, 2004.
34. "Fuzzy Logic and Its Application to Multi-Agent and Consumer Profiling", M. Nikravesh, S. Guadarrama, S. Alptekin, et al, 2004 EECS Research Summary, Ed. California University, Berkeley, 98-100, 2004.

2003

35. "Multiple-valued logic and artificial intelligence fundamentals of fuzzy control revisited", C. Moraga, E. Trillas and S. Guadarrama, *Artificial Intelligence Review* 20 (3-4): 169-197, 2003.
36. "Model of Place-Sensor System for Self-Localization of an Autonomous Mobile Robot", G. Triviño, A. Ruiz, S. Guadarrama and R. Gari, *Artificial Intelligence Research and Development* 100: 123-136, JUN 2003
37. "Constructing Fuzzy Thesauri for the WWW: application to BeMySearch", M. De Cock, S. Guadarrama and M. Nikravesh, *Proceedings of FLINT-CIBI 2003* 50-55, 2003.
38. "A step towards conceptually improving Takagi-Sugeno's approximation", S. Guadarrama, E. Trillas, J. Gutierrez, et al., *Intelligent Systems for Information Processing: from Representation to Applications*, Ed. B. Bouchon-Meunier, L. Foulloy and R. R. Yager, 71-80, Elsevier, 2003.

2002

39. "A simple general implementation using CLP(R)", C. Vaucheret, S. Guadarrama and S. Munoz, *Lecture Notes in Computer Science* 2401: 469-469, 2002.
40. "Fuzzy Prolog: A simple general implementation using CLP(R)", C. Vaucheret, S. Guadarrama and S. Munoz, *Lecture Notes in Artificial Intelligence* 2514: 450-463, 2002.
41. "ACiao: Agents in Ciao Prolog" and "Computing with Antonyms", S. Guadarrama, M.Sc. Thesis, Technical University of Madrid, October 2002.
42. "Non-Contradiction and Excluded-Middle with Antonyms" Guadarrama S, Trillas E, Renedo E. XI Congreso Español sobre Tecnologías y Lógica Fuzzy (ESTYLF 2002). *Proceedings of ESTYLF* : 385-389, 2002

TEACHING EXPERIENCE

◇ Affiliated Professor

- Fuzzy Sets and Fuzzy Systems (in English) (Fall 2009). Graduate course of the European Master in Soft Computing and Intelligent Data Analysis, University of Oviedo.
- Soft Computing for Computing with Words (in English) (Spring 2010). Graduate course of the European Master in Soft Computing and Intelligent Data Analysis, University of Oviedo.

◇ Lecturer

- Approximate Reasoning (in English) (Spring 2007) (Student evaluation 4.7/5). Graduate course of the Master in Artificial Intelligence, Technical University of Madrid.
- Models of Reasoning (in Spanish) (Fall 2006, Spring 2007) (Student evaluation 4.5/5). Upper division undergraduate course of the Artificial Intelligence Department, Technical University of Madrid.
- Models of Inexact Reasoning (in English) (Spring 2006, Spring 2007) (Student evaluation 4.9/5). Graduate course of the European Master in Computational Logic, Technical University of Madrid.
- Approximate Reasoning (in English) (Fall 2006) (Student evaluation 4.8/5). Graduate course of the European Master in Computational Logic, Technical University of Madrid.

◇ Graduate Student Instructor

- Logic Programming (in Spanish) (Fall 2005, Fall 2006) (Student evaluation 4.2/5). Upper division undergraduate course of the Artificial Intelligence Department, Technical University of Madrid (Supervisor Prof. Manuel Hermenegildo).
- Models of Reasoning (in Spanish) (Fall 2005, Spring 2006) (Student evaluation 4.4/5). Upper division undergraduate course of the Artificial Intelligence Department, Technical University of Madrid (Supervisor Prof. Enric Trillas).
- Fundamentals of Artificial Intelligence (in Spanish) (Spring 2005) (Student evaluation 4.3/5). Upper division undergraduate course of the Computer Science Department, University Rey Juan Carlos (Supervisor Dr. Holger Billhardt).
- Automata and Formal Languages (in Spanish) (Fall 2004, Spring 2005). (Student evaluation 3.4/5) Lower division undergraduate course of the Computer Science Department, University Rey Juan Carlos (Supervisor Dr. Holger Billhardt).
- Independent Research: Fuzzy Search Tools and Multi-Agent Systems (in English) (Fall 2003, Spring 2004) (Student evaluation 4.9/5). Upper division undergraduate course of the Computer Science Division, University of California, Berkeley (Supervisor Prof. L. Zadeh).

◇ Teaching Assistant

- Logic Models of Inexact Reasoning (in Spanish) (Fall 2002, Spring 2003).
- Approximate Reasoning (in Spanish) (Fall 2002, Spring 2003).

SUPERVISION OF STUDENTS RESEARCH PROJECTS

- ◇ Master Thesis, “Perceptions’ Analyzer”, 2007, Alvaro Pérez Álvarez, Advisors: Sergio Guadarrama and Nelson Medinilla.
- ◇ Senior Thesis, “Concept-Analyzer: a fuzzy logic tool for concept analyzing”, 2007, Marta Garrido, Advisor: Sergio Guadarrama.
- ◇ Senior Thesis, “XFSDL: An XML Fuzzy System Definition Language”, 2007, Jose A. de los Frailes, Advisors: Sergio Guadarrama and Julio Gutierrez.
- ◇ Independent Studies Project. “Fuzzy models in Bio informatics”, Prerana Sharma, 2007, Advisor: Sergio Guadarrama.
- ◇ Independent Studies Project. “Multi Criteria Multi Objective Decision Making”, Alper Tunga Gulbahar, 2006, Advisor: Sergio Guadarrama.
- ◇ Independent Studies Project. “BISC Fuzzy Search Tools”, Chris Loer, 2004, Advisors: Sergio Guadarrama and Masoud Nikraves.

FORMER ADVISEES

- ◇ Prerana Sharma (M.Sc. 2009), working in Siemens, Austria.
- ◇ Alvaro Pérez-Álvarez (M.Sc. 2008), pursuing Ph.D, Spain.
- ◇ Marta Garrido (B.Sc. 2007), working in Realtech, Spain.
- ◇ Jose A. de los Frailes (B.Sc. 2007), working in Fujitsu, Spain.
- ◇ Alper Tunga (M.Sc. 2007), working in Siemens, Turkey.
- ◇ Chris Loer (B.Sc. 2004), working in BigFix, USA.

LEADERSHIP AND DEVELOPER EXPERIENCE

2008-Pres Team leader and Software designer in the project “Smart-Bees: Learning languages in semi-supervised environments”. In charge of developing the models, designing the system and the web, and leading a group of 3 people.

- 2005-2008 Team supervisor and Software designer in the project "Soft Computing Techniques for Computing with Words, oriented to Perceiving Systems". In charge of designing the system, the integration and leading a group of 5 people.
- 2002-2005 Software designer and developer of the project "A'Ciao: A Multi-Agent Platform for Agents with different logics". In charge of designing the platform, the language and the system.
- 2003-2004 Team supervisor and Software designer in the project "Fuzzy Search Engine". In charge of designing the system and leading a group of 4 people.
- 2003-2004 Software designer and tester in the project "BeMySearch: Concept-based Search Engine for Multimedia". In charge of design the fuzzy engine and test it.
- 2003-2004 Software designer and developer in the project "Fuzzy Prolog". In charge of designing the language and the parser.

SOFTWARE SKILLS

- ◇ Extreme programing, Agile programing, Object oriented programing, Declarative programing, Functional programing, Concurrent programing.
- ◇ Programing languages: Java, C/C++, Python, Javascript, Pascal, Lisp, Prolog, Haskell.
- ◇ Software development tools: Eclipse, Matlab, CUDA.
- ◇ S.O.: Windowns, Mac, Linux.

TALENTS

- ◇ Maximizer: I focus on strengths as a way to stimulate personal and group excellence.
- ◇ Activator: I can make things happen by turning thoughts into action.
- ◇ Learner: I have a great desire to learn and want to continuously improve.
- ◇ Ideation: I am fascinated by ideas, usually able to find connections between seemingly disparate phenomena.
- ◇ Work-mate: I enjoy close relationships with others, and find deep satisfaction in working hard with my team to achieve a goal.

HOBBIES AND INTERESTS

Playing piano, Reading books, Cooking, Listen to music, Watching good movies, Riding bikes, Photography, Trekking and Hiking, Traveling, Fixing things, Having coffee with friends, ...