

# Roberta Catizone

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## EDUCATION

- M.Sc.** 1986-1991 New Mexico State University, Computer Science  
1984-1985 California State University, Long Beach, Computer Science and Mathematics  
1983-1984 New Mexico State University, Computer Science
- Certif.** 1982-1983 L'Institut Catholique de Paris, French
- Apprenticeship** 1980-1982 Hispanic Museum, New York City, Painting Restoration  
1978-1980 Hunter College, Art History and Chemistry
- B.F.A.** 1974-1977 Pennsylvania State University, Fine Arts
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## EMPLOYMENT HISTORY

**Research Associate, Spiritual Intelligence Project, 3-year project funded by the Templeton Foundation**  
**UK**

- 2020-present This project explores the combination of Artificial Intelligence and Religion. My role in the project is the Design and implementation of a Computer avatar system to simulate a Spiritual Advisor. Collected Data will be analysed using Natural Language Processing Tools to understand people's emotional response and acceptance of such a system.

**Technical Writer(Freelance), Curiosity Ltd**  
**Ireland**

- 2018-present Documentaiton author for **Test Data Automation and Test Modeller** software  
*Documentation and Knowledge Base population for company software including user manuals, installation guides and reference material.*

**Programmer for Conversation Prototype for United Nations**

- 2018 *Team programmer for a conversation prototype for UN to help clients understand Climate change. Prototype shown at UN Global meeting in Ethiopia 2018.*

**Language and Data Engineer (Freelance), Oxford University Press**  
**Oxford, UK**

- 2012 - present **Global Language Solutions Project**  
*Data acquisition checking/validation and coordination for Global Language Solutions - providing dictionary content to technology companies.*

- 2013 - **Technical Writer(Freelance), Grid-Tools Ltd acquired by CA Technologies**  
2015 Enysham UK

Knowledge Base setup and population for software products  
*Knowledge Base setup and population for all company software documentation including user manuals, installation guides and reference material.*

**Project Coordinator**, Oxford University Press  
Oxford, UK

- 2011 - Global Language Solutions
- 2012 - *Project Coordinator for Global Language Solutions - providing dictionary content to technology companies.*

**Technology Officer**, Onyx Consulting  
Baltimore, MD

- 2010 - Natural Language Processing
- 2011 - *Team member for Maryland Virtual Patient Dialogue System (MVP) and Clinicians Advisor (CLAD)*

**Production Manager and Art and Media Director**, Coldpress Publishing  
Oxford, UK

- 2008 - Magazine Production and Publishing
- 2009 - *Production manager and Head of Art and Media for 'Ion' magazine, a quarterly paper and online publication for Oxford Tube bus service.*

**Research Associate**, Computer Science Department  
University of Sheffield, Sheffield, UK

- Natural Language Processing/Information Extraction/Human-Computer Dialogue Systems
- Project Manager and Project Partner of the EU-funded Companions project - Multimodal Dialogue Project (2006 - 2010)*
- 1993 - *Project Partner of Cronopath Project - Timeline Information Retrieval Project (2005 - 2006 )*
- 2010 - *Project leader of COMIC Project - Multimodal Dialogue project (2002-2005 )*
- Partner in the NAMIC Project - Multilingual authoring system project (1999-2002)*
- Project leader of ECRAN Project - Multilingual Information Extraction project (1996 - 1999)*
- Partner in the Converse Project - Open domain dialogue project (Winner of the Loebner Prize 1997)*
- Project leader of EDR Project - multilingual electronic dictionary project (1994 - 1996)*

**Tutor**, Site Gallery

- 1999 - Sheffield, UK
- 2001 - *Web Authoring Course*

**Programmer**, Intelligent Research Ltd.

- 1995 - London/Sheffield UK
- 1997 - *Implementation of Converse Winner of the 1997 Loebner Prize*

**Programmer**, Learning Research and Development Center,  
University of Pittsburgh, Pittsburgh, Pa.

- 1991-1993 - *Natural Language Processing and Intelligent Tutoring Systems*

**Graduate Research Assistant**, Computing Research Laboratory

- 1990-1991 - New Mexico State University, Las Cruces, NM
- Natural Language Processing of Lexicons & Corpora*

**Programmer**, Crossover Technologies,  
New York, NY

- 1989-1990 - *Multi-Media Programming with Grolier Electronic Encyclopedia*

1988-1989 **Graduate Research Assistant**, L'Institut Dalle Molle pour Les Etudes Cognitives et Semantiques, Geneva, Switzerland, *Bilingual Concordance Project*

1986-1988 **Graduate Research Assistant**, Computing Research Laboratory New Mexico State University, Las Cruces, NM *Image Processing Software Development*

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## AWARDS

1977 Pennsylvania State University, Creative Achievement Award

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## LANGUAGES

French

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## COMPUTER LANGUAGES

JAVA, Python, Perl, HTML, CSS, XML, MySQL, JavaScript, Pascal, Modula-2, C, C++, Lisp, Prolog, Smalltalk

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## INTERESTS

painting, drawing, printmaking, theatre set design, painting restoration, graphic design, web site development, music, singing

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## PUBLICATIONS

Catizone, R., Gurthrie, L., Thomas, A. and Wilks, Y. (2012) **LIE: Leadership, Influence and Expertise**. In Proc International Conference on Language Resources and Evaluation (LREC) 2012, Istanbul

Nirenburg, S., McShane, M., Beale, S., and Catizone, R. **An overview of a cognitive architecture for simulating bodies and minds**. 2010. Proceedings of the 10th International Conference on Intelligent Virtual Agents, Sept. 20-22, Philadelphia, Pennsylvania.

Catizone, R., Worgan, S., Wilks, Y., Dingli, A. and Cheng, W. (2010) **A World-Hybrid approach to a conversational Companion for reminiscing about images**. In: Y.Wilks (ed.) Close Engagements with Artificial Companions. Key social, psychological, ethical and design issues. John Benjamins: Amsterdam, pp. 157-168.

Catizone, R. and Wilks, Y. (2010) **Companionable Agents**. In Perez and Pascual-Nieto (Eds) Conversational Agents and Natural Language Interaction: Techniques and Effective Practices. IGI Global.

Catizone, R., Wilks, Y., Worgan, S. and Turunen, M. (2010) **Some background on Dialogue Management and Conversational Speech for dialogue systems**. Computer Speech and Language [special issue on dialogue, Y.Wilks and R.Catizone, eds].

Wilks, Y., Worgan, S., Dingli, A., Catizone, R., Moore, R., Field, D. and Cheng, W. (2010) **A prototype for a Conversational Companion for Reminiscing about Images**. Computer, Speech and Language [special issue on dialogue, Y.Wilks and R.Catizone, eds].

Catizone, R., Wilks, Y., Dingli, A. and Cheng, W. (2010) **Demonstration of a prototype of a Conversational Companion for reminiscing about images**. Proc. ACL2010 Demonstration Session, Uppsala, Sweden.

Dingli, A., Wilks, Y., Catizone, R., and Cheng, W. (2009), **The Companions: Hybrid-World approach**. IJCAI09 workshop on Reasoning and KR in Dialogue Systems. Pasadena, CA

Catizone, R., Worgan, S., Wilks, Y., Dingli, A. and Cheng, W. (2009) **A World-Hybrid approach to a conversational Companion for reminiscing about images**. In: Y.Wilks (ed.) Artificial Companions in Society: scientific, economic, psychological and philosophical perspectives. John Benjamins: Amsterdam.

Field, D., Catizone, R., Cheng, W., Dingli, A., Worgan, S., Ye, L. and Wilks, Y. (2009) **The Senior Companion: a Semantic Web Dialogue System**. Proceedings of the 8th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2009), Demonstration Track, Budapest, Hungary, 10-15 May 2009.

Catizone, R., Worgan, S., Wilks, Y., Dingli, A. and Cheng, W. (2008) **A Multimodal Conversational Companion for Reminiscing about Images**. Fourth International Workshop on Human-Computer Conversation, Bellagio, Italy.

Catizone, R., Dingli, A., Pinto, H. and Wilks, Y. (2008) **Information Extraction tools and methods for Understanding Dialogue in a Companion**. In: Proc. Sixth International Conference on Language Resources and Evaluation (LREC08), Marrakech, Morocco.

Pinto, H., Wilks, Y., Catizone, R. (2008) **The Senior Companion Multiagent Dialogue System**. In Proceedings of the 7th International Joint Conference on Autonomous Agents and Multi-Agent Systems (AAMAS'08).

Wilks, Y., Catizone, R. and Mival, O. (2008) **The Companions paradigm as a method of eliciting and organising life data**. In Proc. Workshop on Memories for Life, British Computer society (London, 18 March 2008).

Pinto, H., Catizone, R. (2008) **Spoken Dialogue Systems** in AI Game Programming Wisdom 4, Chapter 6.1, edited by Steve Rabin, Course Technology, Centage Learning, Charles River Media.

Dalli, A., Catizone, R., Wilks, Y. (2006) **A Sheffield Multiple-Document Summarisation System for MES 2006**. MES'06 Workshop, COLING/ACL, Sydney, Australia.

Catizone, R., Dalli, A., and Wilks, Y. (2006) **A Methodology for Evaluating Timelines**, Fifth International Conference on Language Resources and Evaluation, Genoa, Italy

Foster, M.E., White, M., Setzer, A., and Catizone, R. (2005) **Generating Multimodal Output in the COMIC Dialogue System**. ACL 2005 Demonstration Session, Ann Arbor, MI.

- Catizone, R., Setzer, A., and Wilks, Y. (2003) **Multimodal Dialogue Management in the COMIC Project**, Workshop on "Dialogue Systems: interaction, adaptation and styles of management", European Chapter of the Association for Computational Linguistics (EACL), Budapest, Hungary
- Catizone, R., Setzer, A., and Webb, N. (2002) **Scaling-up Information Extraction**, Workshop on "Event Modelling for Multilingual Document Linking", Language Resources and Evaluation Conference (LREC 2002), Las Palmas, Canary Islands
- Wilks, Y., Catizone, R. (2002) **What is Lexical Tuning?**, Journal of Semantics
- Wilks, Y., Catizone, R. (2001) **Lexical Tuning**, PACLING 2001 - Conference of the Pacific Association of Computational Linguistics, Kitakyusu, Japan
- Wilks, Y., Catizone, R. (2001) **Lexical Tuning**, In Proc. Workshop on Generative Approaches to the Lexicon, Geneva.
- Wilks, Y., Catizone, R. (2001) **Human-Computer Conversation**, Encyclopedia of Library and Information Science, Vol. 69, Allan Kent (ed.). New York: Dekker.
- Basili, R., Catizone, R., Padro, L., Pazienza, M.T., Rigau, G., Setzer, A., Webb, N., Wilks, Y. and Zanzotto, F. (2001) **Multilingual Authoring: the NAMIC approach**, Human Language Technology and Knowledge Management, 2001 EACL/ACL Workshop, Toulouse, France
- Wilks, Y., Catizone, R. (1999) **Can We Make Information Extraction More Adaptive?** In M. Pazienza (ed.) Proceedings of the SCIE99 Workshop. Springer-Verlag, Berlin
- Levy, D., Catizone, R., and Wilks, Y. (1998) **Life after Converse**, Proceedings of the 2nd International Workshop on Human-Computer Conversation, Bellagio, Italy
- Basili, R., Catizone, R., Pazienza, M.T., Stevenson, M., Velardi, P., Vindigni, M., Wilks, Y. (1998) **An Empirical approach to Lexical Tuning, Workshop on Adapting Lexical and Corpus Resources to Sublanguages and Applications**, LREC, First International Conference on Language Resources and Evaluation, Granada, Spain
- Levy, D. and Catizone, R., Battacharia, B., Krotov, A. and Wilks, Y. (1997) **CONVERSE: A Conversational Companion**, Proceedings of the 1st International Workshop on Human-Computer Conversation, Bellagio, Italy
- Perkins, M., Catizone, R., Peers, I., and Wilks, Y. (1997), **Clinical Computational Corpus Linguistics: a case study**. In Proc. 6th Annual Conf. of the International Phonetics & Linguistics Association, Nijmegen, Netherlands.
- Koizumi, A., Arioka, M., Harada, C., Sugimoto, M., Guthrie, L., Watts, C., Catizone, R., Wilks, Y. (1994) **Noun Phrasal Entries in the EDR English Word Dictionary**, Proceedings of the International Conference on Computational Linguistics (COLING 1994), Kyoto, Japan
- Catizone, R., Russell, G., and Warwick, S. (1989) **Deriving Translation Data from Bilingual Texts**, Proceedings of the First International Lexical Acquisition Workshop, (AAAI-89) Detroit, Michigan.pgs. 1-7. Also in Zernik (ed), Lexical Acquisition:using on-line Resources to Build a Lexicon, Lawrence Erlbaum.