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# CURRICULUM VITAE

## Christian Raymond

Associate Professor

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Age	:	33 ans
Birth Date	:	March the 24 <sup>th</sup> 1977
Birth place	:	Arles, France
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## Education and Academic Career

**Associate Professor** [IRISA](#), INSA de Rennes, France, Current Position

**Researcher** [L.I.A.](#), University of Avignon, France, (2008-2009)

**Assistant professor** [L.I.A.](#), University of Avignon, France, (2007-2008)

**Post-Doc** [D.I.S.I.](#), University of Trento, Italy, (2006-2007)

**Assistant professor** [L.I.A.](#), University of Avignon, France, (2005-2006)

**Ph.D thesis** in Computer Science from the University of Avignon [L.I.A.](#), December 8 2005.

Title : « *Conceptual decoding : integration of transcribing and understanding processes in spoken dialog systems* »

jury :

Jean-Paul HATON	Professeur	LORIA, Nancy	Rapporteur
Giuseppe RICCARDI	Professeur	DIT, Trento (Italie)	Rapporteur
Marc EL-BÈZE	Professeur	LIA, Avignon	Examineur
Géraldine DAMNATI	Ingénieur	France Télécom R&D, Lannion	Examineur
Renato DE MORI	Professeur	LIA, Avignon	Directeur de Thèse
Frédéric BÉCHET	Maître de Conf.	LIA, Avignon	Co-directeur de Thèse

**Masters degree (DEA)** in Computer Science from the university of Avignon, L.I.A. (2000-2001).

Supervisors : Patrice Bellot and Marc El-Bèze

Title « *Query expansion for information retrieval by means of an unsupervised classification* »

**Engineering school** in Computer Science, Avignon, France (1997-2000).

**Two-year university diploma** in Networks & Telecommunications, Marseille, France (1995-1997).

## Research interest

- ✓ **Automatic Speech Recognition** : language modeling, confidence measures
- ✓ **Spoken Language Understanding** : Finite State Transducers
- ✓ **Machine Learning** : Markov models, Support Vector Machines (SVM), Conditional Random Fields (CRF), Decision Trees (SCT), Boosting algorithms, Active Learning.

## Publications

The following publications are available at this address :

<http://www.irisa.fr/texmex/people/raymond/publi.html>

### International Journal (4)

- [1] STEFAN HAHN, MARCO DINARELLI, CHRISTIAN RAYMOND, FABRICE LEFÈVRE, PATRICK LEHNEN, RENATO DE MORI, ALESSANDRO MOSCHITTI, HERMANN NEY AND GIUSEPPE RICCARDI (2010)  
« Comparing Stochastic Approaches to Spoken Language Understanding in Multiple Languages ».  
*IEEE Transactions on Audio, Speech and Language Processing*, PP :1.
- [2] CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET, NATHALIE CAMELIN, RENATO DE MORI AND GÉRALDINE DAMNATI (2007).  
« Sequential decision strategies for machine interpretation of speech ».  
*IEEE Transactions on Audio, Speech and Language Processing*, 15(1) :162-171.
- [3] CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET, RENATO DE MORI AND GÉRALDINE DAMNATI (2006).  
« On the use of finite state transducers for semantic interpretation ».  
*Speech Communication*, 48 :288-304.
- [4] YANNICK ESTÈVE, CHRISTIAN RAYMOND, RENATO DE MORI AND DAVID JANISZEK (2003).  
« On the use of linguistic consistency in systems for human-computer dialogs ».  
*IEEE Transactions on Speech and Audio Processing*, 11(6) :746-756.

### International Conferences and workshops (20)

- [5] FRÉDÉRIC BÉCHET, FRÉDÉRIC DUVERT, CHRISTIAN RAYMOND AND RENATO DE MORI (2010).  
« Frame Based Interpretation Of Conversational Speech »  
*Spoken Language Technologies Workshop*, Berkeley, California, U.S.A.
- [6] JULIEN FAYOLLE, FABIENNE MOREAU, CHRISTIAN RAYMOND AND GUILLAUME GRAVIER (2010).  
« Reshaping Automatic Speech Transcripts for Robust High-level Spoken Document Analysis »  
*Analytics for Noisy Unstructured Text Data*, Toronto, Canada.
- [7] JULIEN FAYOLLE, FABIENNE MOREAU, CHRISTIAN RAYMOND, GUILLAUME GRAVIER AND PATRICK GROS (2010).  
« CRF-based Combination of Contextual Features to Improve A Posteriori Word-level Confidence Measures »  
*InterSpeech*, Makuari, Japan.
- [8] CHRISTIAN RAYMOND AND JULIEN FAYOLLE (2010).  
« Reconnaissance robuste d'entités nommées sur de la parole transcrite automatiquement »  
*Traitement Automatique des Langues Naturelles*, TALN'10, Montréal, Canada.

- [9] CHRISTOPHE SERVAN, NATHALIE CAMELIN, CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET AND RENATO DE MORI (2010).  
« On The Use Of Machine Translation For Spoken Language Understanding Portability »  
*In Proceedings of the International Conference on Acoustic Speech and Signal Processing ICASSP'10*, Dallas, USA.
- [10] STEFAN HAHN, PATRICK LEHNEN, CHRISTIAN RAYMOND AND HERMANN NEY (2008).  
« A Comparison of Various Methods for Concept Tagging for Spoken Language Understanding »  
*Language Resources and Evaluation Conference, LREC08*, Marrakesh, Morocco.
- [11] CHRISTIAN RAYMOND, KEPA JOSEBA RODRIGUEZ AND GIUSEPPE RICCARDI (2008).  
« Active Annotation in the LUNA Italian Corpus of Spontaneous Dialogues »  
*Language Resources and Evaluation Conference, LREC08*, Marrakesh, Morocco .
- [12] CHRISTIAN RAYMOND AND GIUSEPPE RICCARDI (2008).  
« Learning with Noisy Supervision for Spoken Language Understanding ».  
*In Proceedings of the International Conference on Acoustic Speech and Signal Processing*, Las Vegas, USA.
- [13] ALESSANDRO MOSCHITTI, GIUSEPPE RICCARDI AND CHRISTIAN RAYMOND (2007).  
« Spoken Language Understanding With Kernels For Syntactic/Semantic Structures ».  
*Proceedings IEEE Workshop on Automatic Speech Recognition and Understanding*, Kyoto, Japan.
- [14] CHRISTIAN RAYMOND AND GIUSEPPE RICCARDI (2007).  
« Generative and Discriminative Algorithms for Spoken Language Understanding ».  
*Interspeech*, Anvers, Belgium.
- [15] CHRISTIAN RAYMOND, GIUSEPPE RICCARDI, KEPA JOSEBA RODRIGUEZ AND JOANNA WIŚNIEWSKA (2007).  
« The LUNA Corpus : an Annotation Scheme for a Multi-domain Multi-lingual Dialogue Corpus ».  
*Workshop on the Semantics and Pragmatics of Dialogue, DECALOG'2007*, Rovereto, Italia.
- [16] KEPA JOSEBA RODRIGUEZ, STEFANIE DIPPER, MICHAEL GÖTZE, MASSIMO POESIO, GIUSEPPE RICCARDI,  
CHRISTIAN RAYMOND AND JOANNA RABIEGA-WIŚNIEWSKA (2007).  
« Standoff Coordination for Multi-Tool Annotation in a Dialogue Corpus ».  
*Linguistic Annotation Workshop, LAW07*, Prague, Czech Republic.
- [17] CHRISTOPHE SERVAN, CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET AND PASCAL NOCÉRA (2006).  
« Conceptual decoding from word lattices : application to the spoken dialogue corpus MEDIA »  
*In Proceedings of the International Conference on Spoken Language Processing, ICSLP'06*. Pittsburgh, USA
- [18] CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET, RENATO DE MORI AND GÉRALDINE DAMNATI (2005).  
« Semantic interpretation with error correction ».  
*In Proceedings of the International Conference on Acoustic Speech and Signal Processing, ICASSP'05*, Philadelphia, USA.
- [19] CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET, RENATO DE MORI AND GÉRALDINE DAMNATI (2004).  
« On the use of confidence for statistical decision in dialogue strategies ».  
*In 5<sup>th</sup> SIGdial Workshop on Discourse and Dialogue*, Boston, USA.
- [20] CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET, RENATO DE MORI, GÉRALDINE DAMNATI AND YANNICK ESTÈVE (2004).  
« Automatic learning of interpretation strategies for spoken dialogue systems ».  
*In Proceedings of the International Conference on Acoustic Speech and Signal Processing, ICASSP'04*,

Montréal, Canada.

[21] CHRISTIAN RAYMOND, YANNICK ESTÈVE, FRÉDÉRIC BÉCHET, RENATO DE MORI AND GÉRALDINE DAMNATI (2003).

« Belief confirmation in spoken dialogue systems using confidence measures ».

*In Proceedings IEEE Workshop on Automatic Speech Recognition and Understanding, ASRU'03*, St. Thomas, US-Virgin Islands.

[22] YANNICK ESTÈVE, CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET AND RENATO DE MORI (2003).

« Conceptual decoding for spoken dialog systems ».

*In Proceedings of European Conference on Speech Communication and Technology, Eurospeech'03*, Geneva, Switzerland.

[23] RENATO DE MORI, YANNICK ESTÈVE AND CHRISTIAN RAYMOND (2002).

« On the use of structures in language models for dialogue ».

*In Proceedings of the International Conference on Spoken Language Processing, ICSLP'02*, Denver, Colorado, USA.

[24] YANNICK ESTÈVE, CHRISTIAN RAYMOND AND RENATO DE MORI (2002).

« On the use of structure in language models for dialogue : specific solutions for specific problems ».

*In ISCA Tutorial and Research Workshop on Multi-Modal Dialogue in Mobile Environments*, Kloster Irsee, Germany.

## **National Conferences (4)**

[25] CHRISTOPHE SERVAN, CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET AND PASCAL NOCÉRA (2006).

« Décodage conceptuel à partir de graphes de mots sur le corpus de dialogue Homme-Machine MEDIA ».

*XXVI<sup>ième</sup> Journée d'études sur la parole, JEP'06*, Rennes, France.

[26] CHRISTIAN RAYMOND, FRÉDÉRIC BÉCHET, RENATO DE MORI AND GÉRALDINE DAMNATI (2004).

« Stratégie de décodage conceptuel pour les applications de dialogue oral ».

*XXV<sup>ième</sup> Journée d'études sur la parole, JEP'04*, Fès, Morocco.

[27] CHRISTIAN RAYMOND (2003).

« Mesures de confiance pour la reconnaissance de la parole dans des applications de dialogue homme-machine ».

*Majestic*, Marseille, France.

[28] CHRISTIAN RAYMOND, PATRICE BELLOT AND MARC EL-BÈZE (2002).

« Enrichissement de requêtes pour la recherche documentaire selon une classification non-supervisée ».

*13<sup>ième</sup> Congrès Francophone AFRIF-AFIA de Reconnaissance des Formes et d'Intelligence Artificielle (RFIA'2002)*, pages 625 à 632, Angers, France.

## **Thesis**

[29] CHRISTIAN RAYMOND (2005).

« Décodage conceptuel : co-articulation des processus de transcription and compréhension dans les systèmes de dialogue ».

*Thèse de doctorat*, Université d'Avignon et des Pays de Vaucluse.

[30] CHRISTIAN RAYMOND (2001).

« Réécriture de requêtes pour la recherche documentaire selon une méthode de classification à base d'arbres de décision non-supervisés ».

*Mémoire de DEA*, Marseille (Luminy).