

# Hüseyin Hüsnü Cem Bozşahin

夏胤

## CURRICULUM VITAE

**CURRENT POST** Professor of Cognitive Science at the Informatics Institute, Middle East Technical University (METU), 06800 Ankara, Turkey

---

### DEGREES

- 1990 PhD Computer Science, Arizona State University, Tempe, Arizona. (thesis: *Memory Based Approach to Learning Commonsense Causal Relations from Text*. supervisor: Prof. Nicholas V. Findler).
- 1984 MSc Industrial Engineering, Middle East Technical University, Ankara. (thesis: *Enhancing the Performance of Query Processing in a Distributed Database System*. supervisor: Prof. Abdullah U. Tansel; now at Baruch College).
- 1982 BSc Industrial Engineering, Middle East Technical University, Ankara.

### PRIMARY POSTS

- 2011 – Prof.dr., Cognitive Science, METU.
- 2000 – 2011 Assoc. Prof.dr., Computer Engineering, METU and Cognitive Science, METU.
- 1992 – 2000 Asst. Prof.dr., Computer Engineering, METU.
- 1990 – 1992 Assistant professor, Computer Science, Ohio University.

### VISITING and COLLABORATIVE POSTS

- 2015–2016 Visiting Research Fellow. Center for Linguistics, CLUL, University of Lisbon.
- 2010–2015 Researcher. GRAMPLUS FP7 Project (Ideas). School of Informatics, University of Edinburgh.
- 2011 Visiting Scientist. Bogaziçi University, Cognitive Science. İstanbul.
- 2000 – 2010 Affiliated faculty, Cognitive Science, Informatics Institute, METU.
- 7/07 – 8/07 Visiting Research Fellow, Department of Linguistics. University of Edinburgh.
- 7/06 – 8/06 Visiting Research Fellow, Institute for Language, Cognition and Computation (ILLC, formerly ICCS), School of Informatics, University of Edinburgh.
- 6/05 – 9/05 Visiting Research Fellow, ILLC, University of Edinburgh.
- 9/02 – 12/03 Visiting Research Fellow, ILLC, University of Edinburgh.
- 1988 – 1990 Research Associate, AI Laboratory (Prof. Nicholas V. Findler, director), Computer Science Department, Arizona State University.
- 1985 – 1988 Research Associate, Information Systems (John O’Connell, director), Arizona State University.

1982 – 1984 Research Assistant, Industrial Engineering, METU.

## RESEARCH INTEREST

Referentiality and configurationality in language and action (shorter: grammar)

## TEACHING INTERESTS

Linguistics, computer science, philosophy of computer science, philosophy of cognitive science

## RESEARCH OUTPUT

**L** : Linguistics **CS** : Computer science **P** : Philosophy **C** : Cognitive science **CL** : Computational linguistics

\* Book ◦ Article ◇ Chapter ▷ Proceedings

- CL** 2022 B. Can, H. Aleçakır, S. Manandhar, C. Bozşahin. Joint learning of morphology and syntax with cross-level information flow. *J. Natural Language Engineering*. 1-33.
- ▷**L** 2021 C. Bozşahin. Idiosyncrasy and derivational morphology: From distribution to annotation. Dagstuhl Report.
- ▷**L** 2019 C. Bozşahin, Tzu-Ching Kao. The Chinese Double Nominative. *Categorial Grammar Summit*, Changsha, China. (Yunbao Shi, ed.)
- P** 2018 C. Bozşahin. Computers aren't syntax all the way down, or content all the way up. *Minds and Machines*:28(3):543–567.
- ▷**L** 2018 C. Bozşahin, Arzu Burcu Güven. Paracompositionality, MWEs, and argument substitution. ed. A. Foret, G. Kobele, S. Pogodalla, LNCS 10950, Springer, pp. 16–36.
- ◇**L** 2018 C. Bozşahin. Command and order by type substitution: Another way to look at word order. *Word Order in Turkish*. S. Özsoy ed., Springer.
- ◇**CL** 2018 I. Demirşahin, D. Zeyrek, C. Bozşahin. Turkish Discourse Bank: Motivations, investigations on discourse structure, and the prospects. In *Turkish Natural Language Processing*, K. Oflazer and M. Saraçlar (eds.), Springer.
- ◇**L** 2018 R. Cakıcı, M. Steedman, C. Bozşahin. Wide-coverage parsing, semantics and morphology. In *Turkish Natural Language Processing*, K. Oflazer and M. Saraçlar (eds). Springer.
- ◇**L** 2017 C. Bozşahin. Köktendilbilgisi. In *45. Yıl Yazıları*, Hacettepe Univ. Press, N. Büyükkantarçioğlu, I. Özyıldırım, E. Yarar, eds.
- ◇**P** 2016 Bozşahin, C. Natural Recursion doesn't work that way. in *Fundamental Issues of Artificial Intelligence*, V. Mueller (ed.), Springer.
- ◇**P** 2016 C. Bozşahin. What is a Computational Constraint? In *Computing and Philosophy*, V. Mueller (ed), Springer.
- ▷**CL** 2016 Can, B., Kumyol, S and C Bozşahin. Allomorphs and Binary Transitions Reduce Sparsity in Turkish Semi-supervised Morphological Processing. in *CICLing 2016*.
- L** 2014 C. Bozşahin. Word order as projection. *Dilbilim Araştırmaları* [Journal of Linguistic Research]. Sumru Özsoy festschrift special issue.
- ▷**C** 2014 Uyumaz, Begum, C. Bozşahin and Deniz Zeyrek. Turkish resources for visual word recognition. LREC 2014, Rejkjavik.
- ▷**P** 2014 C. Bozşahin. What's a computational constraint? In Annual meeting of Int Asn for Computing and Philosophy (IACAP), Thessaloniki, July 2014.
- ▷**CS** 2014 Enes Yuncu, Huseyin Hacıhabiboglu and C. Bozşahin. Automatic Speech Emotion Recognition using Auditory Models with Binary Decision Tree and SVM. In 22nd Int Conf on Pattern Recognition (ICPR), Stockholm.

- ▷P 2013 C. Bozşahin. Natural recursion doesn't work that way. in Int. Conf. on Philosophy and Theory of AI, Oxford University, September.
- ▷C 2013 Kilic, Ozkan and C. Bozşahin. Selection of Linker Type in Emphatic Reduplication: Speaker's Intuition meets Corpus Statistics. In 35th Annual Meeting of the Cognitive Science Society, Berlin, Germany, August.
- ▷CL 2013 Demirsahin, Isin, Ozturel, Adnan, C. Bozşahin and Deniz Zeyrek. Applicative Structures and Immediate Discourse in the Turkish Discourse Bank. In Proc. of the Seventh Language Annotation Workshop (LAW), ACL Meeting, Sofia, August.
- ◊L 2013 C. Bozşahin. Properties as Anaphors. MITWPL 67. ed: U. Özge.
- ▷C 2012 Ozturel, I. Adnan and C. Bozşahin. Musical Agreement via Social Dynamics Can Self-Organize a Closed Community of Music: A Computational Model. In 12th International Conference on Music Perception and Cognition (ICMPC) and 8th Triennial Conference of the European Society for the Cognitive Sciences of Music (ESCOM). Thessaloniki, Greece, July.
- ▷C 2012 Eryılmaz, Kerem and C. Bozşahin. Lexical Redundancy, Naming Game and Self-constrained Synonymy. In 34th Annual Meeting of the Cognitive Science Society, Sapporo, Japan, August.
- ▷CL 2012 Kılıç, Özkan and C. Bozşahin. Semi-supervised morpheme segmentation without morphological analysis. In LREC 2012, Istanbul, May.
- ▷CL 2010 Berfin Aktas, C. Bozşahin and Deniz Zeyrek. Discourse relation configurations in Turkish and an annotation tool. Proc. of the 4th Language Annotation Workshop (LAW IV), ACL Meeting, Uppsala Sweden, August 2010.
- \*L 2012 C. Bozşahin. *Combinatory Linguistics*. Berlin/Boston: de Gruyter Mouton.
- L 2012 U. Turan, D. Zeyrek, C. Bozşahin. Söylem ve tutarlılık bağları [Coherence relations in discourse] *Dilbilim Araştırmaları* [Journal of Linguistic Research] **23**(2).
- L 2011 C. Bozşahin. Serialization and the Verb in Turkish Coordinate Reduction. *Dilbilim Araştırmaları* [Journal of Linguistic Research] **22**(1):51–67.
- L 2010 U. Özge, C. Bozşahin. Intonation in the grammar of Turkish. *Lingua*, **120**:132–175.
- ▷L 2010 C. Bozşahin, D. Zeyrek, I. Demirsahin. Söylem ve Yapı [Structure and Discourse]. 24th Annual Meeting of Linguistics, Ankara, May 2010.
- ▷CL 2009 Deniz Zeyrek, Umit Deniz Turan, C. Bozşahin, Ruket Cakici, Ayisigi B. Sevdik-Calli, Isin Demirsahin, Berfin Aktas, Ihsan Yalcinkaya and Hale Ogel. Proc. of the Third Language Annotation Workshop (LAW III), ACL Meeting, Singapore, August 2009. Annotating Subordinators in the Turkish Discourse Bank.
- ▷L 2008 D. Zeyrek, U. D. Turan, C. Bozşahin. The role of annotation in understanding discourse. Proc. of the 14th Int. Conf. on Turkish Linguistics. August 2008, Antalya.
- ▷C 2007 C. Çöltekin and C. Bozşahin. Syllables, Morphemes and Bayesian Computational Models of Acquiring a Word Grammar. Proc. of the 29th Annual Meeting of Cognitive Science Society. Nashville, TN.
- ▷P 2006 C. Bozşahin. Grammars, Programs and the Chinese Room. Int. European Conference on Computing and Philosophy, ECAP, Trondheim.
- ▷L 2006 C. Bozşahin. *Kadıköy Iskelesi* and a tale of two compounds. Proc. of 13th Int. Conf. on Turkish Linguistics, Uppsala.
- ▷L 2006 Sevinç, A.M., C. Bozşahin. Verbal Categories in Turkish Sign Language (TID). Proc. of 13th Int. Conf. on Turkish Linguistics, Uppsala.

- ▷L 2004 C. Bozşahin. On the Turkish Controllee. *Proc. of 12th International Conference on Turkish Linguistics*, August, Izmir.
- ▷L 2003 C. Bozşahin and M. Steedman. Control, Grammatical Relations, and Argument Structure: Towards a Parameterized Theory of the Lexicon for CCG. *The Fifth Syntax and Semantics Conference in Paris (CSSP'03)*.
- ▷CS 2003 Tutar, S., C. Bozşahin, and H. Oguztuzun. TPD: An Educational Programming Language Based on Turkish Syntax. *The First Balkan Conference in Informatics*. November, Thessaloniki.
- CL 2002 C. Bozşahin. The Combinatory Morphemic Lexicon. *Computational Linguistics*, **28**(2):145–186.
- CL 2002 O. Yuksel, C. Bozşahin. Contextually Appropriate Reference Generation. *Natural Language Engineering* **8**(1):69–89.
- L 2000 C. Bozşahin, D. Zeyrek. Dilbilgisi, Bilişim, ve Bilişsel Bilim [Grammar, Computation, and Cognitive Science].
- ▷L 2000 C. Bozşahin. Gapping and Word Order in Turkish. *Proc. of 10th International Conference on Turkish Linguistics*, August, Istanbul.  
*Dilbilim Araştırmaları* [Journal of Linguistic Research] **11**.
- ◊CL 1999 O. Şehitoğlu, C. Bozşahin. Lexical Rules and Lexical Organization. *Breadth and Depth of Semantic Lexicons*, E. Viegas (ed.), Boston: Kluwer.
- ▷CS 1999 H. Oğuztüzün, C. Bozşahin. Kuram, Tasarım, ve Gerçekleştirim Bağlamında Dil İşlemcileri Dersi [Compiler Design Courses from the Perspective of Theory, Design, and Development], Elektrik-Elektronik Bilgisayar Müh. 8. Ulusal Kurultayı. Gaziantep.
- ▷CL 1998 C. Bozşahin. Deriving the Predicate-Argument Structure for a Free Word Order Language. *Proc. Joint Conference for Computational Linguistics (COLING) and Association for Computational Linguistics (ACL)*, August, Montreal.
- ▷CL 1998 İ. Pembeci, C. Bozşahin, D. Zeyrek. Computer-aided Learning of Turkish Morphology. *Proceedings of Joint Conf. of Assoc. for Computing in Humanities (ACH) and Assoc. for Literary & Linguistic Computing (ALLC)*, July, Debrecen, Hungary.
- CL 1997 C. Bozşahin. Combinatory Logic and Natural Language Parsing. *Elektrik: Turkish Journal of Electrical Engineering and Computer Sciences*, **3**(1):1–12.
- ▷CS 1997 İ. Altıntaş, C. Bozşahin. Reducing the Order Bias in Incremental Learning. *Proceedings of the 6th Turkish Symposium on AI and Neural Networks (TAINN)*, May, Ankara.
- ▷L 1997 C. Bozşahin. Türkçe'deki Durum İmlemesinin Ulamsal bir İrdelemesi [A Categorical Treatment of Case Marking in Turkish]. *XI. Dilbilim Kurultayı* [XIth Annual Meeting on Linguistics], May, Ankara.
- L 1996 C. Bozşahin. Ulamsal Dilbilgisi ve Türkçe [Categorical Grammar and Turkish]. *Dilbilim Araştırmaları* [Journal of Linguistic Research] **7**:230–244.
- ▷CL 1996 O. Şehitoğlu, C. Bozşahin. Morphological Productivity in the Lexicon. *Proc. of the ACL SIGLEX Workshop*, July, Santa Cruz, USA.
- ▷CL 1995 C. Bozşahin, Elvan Göçmen. A Categorical Framework for Composition in Multiple Linguistic Domains. *Proceedings of the 4th International Conference on Cognitive Science of Natural Language Processing*. July, Dublin.
- ▷CL 1994 K. Oflazer, C. Bozşahin. Türkçe Doğal Dil İşleme [Turkish NLP]. *Bilişim 94* [Informatics Congress]. September, Istanbul.
- ▷CL 1994 K. Oflazer, C. Bozşahin. Turkish Natural Language Processing Initiative: An overview.

*Proceedings of the 3rd Turkish Symposium on Artificial Intelligence ve Neural Networks (TAINN)*, June, Ankara.

- ▷CL 1993 C.Bozsahin. Parsing Constituents with Categorical Grammars. *Proceedings of the 8th International Symposium on Computer and Information Sciences (ISCIS)*, September, Istanbul.
- CS 1992 C. Bozsahin, N.V. Findler. Memory-based Hypothesis Formation: Heuristic Learning of Commonsense Causal Relations from Text. *Cognitive Science*, **16**(4):431–454.
- ▷CS 1990 E.A. Ozkarahan, C. Bozsahin. Query processing and file management issues in partitioned databases. *Proceedings of 1990 ACM Annual Conference, Washington D.C.*
- ▷CS 1990 C. Bozsahin, N.V. Findler. Representing Causal Knowledge. *Proceedings of the 5th Rocky Mountain Conference on Artificial Intelligence (RMCAI)*, June, Las Cruces, New Mexico.
- ▷CS 1990 U.K. Sengupta, C. Bozsahin v.d.. PGMULES: An Approach to Supplementing Simulation Models with Knowledge-based Planning Systems. *Proceedings of the Workshop on Artificial Intelligence and Simulation, 8th National Conference on Artificial Intelligence (AAAI)*, August, Boston.
- CS 1988 E.A. Ozkarahan, C. Bozsahin. Join Strategies Using Data Space Partitioning. *New Generation Computing*, **6**(1):19–39.

## SPONSORED RESEARCH

- 2017–2018 Principle Investigator. Machine learning of deriving surface expressions from logical form. METU.
- 2015-2016 Principle Investigator. Linguistic and Computational Investigation of Portuguese Clitics and Affixes. TUBITAK Grant no. 1059B191500737, September-May.
- 2010-2015 Researcher. Grammar-based robust natural language procesing. European Research Council, FP7 Grant GRAMPLUS, to Prof. Mark Steedman (PI), Univ. Edinburgh.
- 2008–2011 Researcher. Turkish Discourse Annotation (MEDID Project). TUBITAK 107E056. Deniz Zeyrek (PI).
- 2007 Chief scientific consultant. AGMLab, Cyberpark, Ankara. Search engine bilgi.com for Turkish.
- 7/07 – 8/07 Research Fellow. The School of Philosophy, Psychology and Language Sciences, University of Edinburgh (host: Prof. Caroline Heycock). TUBITAK Overseas Research Grant.
- 6/05 – 9/05 Research Fellow. International Exchange Programme (Host: Prof. Mark Steedman). The Royal Society of Edinburgh. At ILLC, University of Edinburgh.
- 1/03 – 6/04 Research Fellow (Host: Prof. Mark Steedman). *Lexical Resources for Case and Grammatical Relations: Abstraction and Computation in the Lexicon*. Engineering and Physical Sciences Research Council (EPSRC), UK, Research Fellowship no. GR/S19134/01. At ILLC, University of Edinburgh.
- 9/02 – 1/03 Research Fellow. *Lexical Resources for Case and Grammatical Relations*. TÜBİTAK Overseas Research Fellowship (BAYG). At ILLC, University of Edinburgh.
- 1999 – 2001 Co-PI (with Prof. Erkan Korkmaz). *Language pairing at functional structure: Turkish-English MT system using Lexical-Functional Grammar*, Apptek-L&H Inc.
- 1994 – 1998 Co-PI (with Prof. Kemal Oflazer). *Turkish NLP Initiative* (TU-LANGUAGE), NATO Science Division.

1993 – 1995 Principal Investigator. *A Grammar Architecture for Computational Analysis of Turkish* (EEEAG-90), The Scientific and Technical Research Council, Turkey (TUBITAK).

## AWARDS

2012 Best supervisor (METU): For Adnan Öztürel’s ms thesis.  
 2012 Best supervisor (METU): For Kerem Eryılmaz’s ms thesis.  
 2008 *Turkish search engine bilgi.com*. AGMLab Co. Elginkan Foundation National Award for Technology, awarded to the team. I was the chief scientific consultant.  
 2005 Best supervisor (Turkey): For Sercan Tutar’s ms thesis. Awarded by Mustafa Parlar Foundation.  
 2003 Best supervisor (Turkey): For Meltem Turhan-Yöndem’s phd thesis. Serhat Özyar Award awarded by Teacher’s syndicate of Higher Education to MTY [Öğretim elemanları derneği].

## THESES SUPERVISION (at METU, unless specified)

2016 PhD Subaşı, Ahmet. An Ambient semantic intelligence model for scientific research.  
 2015 PhD Sevinç, A. Müge. Finite-state Sign Language Morphophonology.  
 2015 PhD Demirşahin, Işın. The discourse structure of Turkish.  
 2012 PhD Power of Frequencies: N-grams and Semi-supervised morphological segmentation in Turkish. Özkan Kılıç.  
 2010 PhD Information and Grammar: A study of the Turkish indefinites. Umut Özge.  
 2001 PhD Identifying The Interactions of Multi-criteria in Turkish Discourse Segmentation. Meltem Turhan-Yöndem.  
 1998 PhD A Computational Analysis of Turkish Using the Government-Binding Approach. Ayşenur Birtürk.  
 2021 MSc Distributional investigation of some frequent turkish derivational affixes for exploring their semantics. Gizem Nur Özdemir.  
 2020 MSc Idioms as multi-word expressions in Turkish. Arzu Burcu Güven.  
 2020 MSc A mathematical word problem solver for addition and subtraction problems. Erolcan Er.  
 2020 MSc Joint learning of morphological segmentation, morpheme tagging, part-of-speech tagging, and dependency. Hüseyin Aleçakır.  
 2019 MSc Implementing the type-raising algorithm by grammar compiling. Oğuzhan Demir.  
 2019 MSc Measuring empirical bias toward ergativity and accusativity. Çağrı Şakiroğulları.  
 2017 MSc Probabilistic learning of Turkish morphosemantics by latent syntax. Ahmet Üstün.  
 2016 MSc Morphological segmentation using Dirichlet process based bayesian non-parametric models. Serkan Kumyol.  
 2015 MSc A computational study of role of planning and affordances in learning. Takmaz, Ece.  
 2015 MSc Power law distributions, self organizing behavior and Popularity. Nasuhbeyoğlu, Gözde.  
 2014 MSc Modeling and predicting the effect of culture in communication: a mixed study using naming game and social networks. Özge Nilay Yalçın.  
 2014 MSc Nouns-first, verbs-first and computationally-easier first: a preliminary design to test the order of acquisition. Enes Avcu.  
 2013 MSc Overextension as evidence for deductive word learning: A theoretical examination. Erdem Ünal.

- 2013 MSc Adapting and testing psycholinguistic toolboxes for Turkish visual word recognition studies. Begüm Erten.
- 2012 MSc Discrete categorization of high-level traffic events in tunnels using attribute grammars. Demirhan Büyüközcü.
- 2011 MSc A computational model of social dynamics of musical agreement. Adnan Öztürel.
- 2011 MSc Two approaches for collective learning with language games. Çağlar Gülçehre.
- 2011 MSc Bootstrapping vocabulary in a language game: A weighted list approach. Kerem Eryılmaz.
- 2009 MSc Aspects of control and complementation in Turkish. Murat Yasavul.
- 2008 MSc Computational aspects of discourse annotation. Berfin Aktaş.
- 2008 MSc Connective position, argument order and information structure of discourse connectives in written Turkish texts. Işın Demirşahin.
- 2008 MSc An analysis of Turkish Sign Language (TİD) Phonology and Morphology. Okan Kubuş.
- 2008 MSc A philosophical analysis of computational modeling in cognitive science. Burcu Ayşen Ürgen.
- 2008 MA Control as a syntax-semantics interface in a lexicalized grammar. Aysun Kunduracı (Ankara Univ., DTCF, Dept. of Linguistics).
- 2008 MSc Using Zipf frequencies as a representative measure in statistical active learning of natural language. Onur Çobanoğlu.
- 2006 MSc From Syllable to meaning: Effects of knowledge of syllable in learning the meaning-bearing units of language. Cagri Coltekin.
- 2006 MSc An examination of quantifier scope ambiguity in Turkish. Kursad Kurt.
- 2006 MSc Grammatical Relations and Word Order in Turkish Sign Language TİD. Ayca Muge Sevinc.
- 2004 MSc A Programming Language for Beginners based on Turkish Syntax. Sercan Tutar.
- 2003 MSc A Type System For Combinatory Categorical Grammar. Gunes Erkan.
- 2003 MSc A Tune-based Account of Turkish Information Structure. Umut Ozge.
- 2002 MSc A Computational Interface For Syntax and Morphemic Lexicons. Ruken Çakıcı.
- 2001 MSc Word Order Variations in Turkish: Evidence from Binding and Scope. Ceyhan Temürcü.
- 2001 MSc Refining the Representational Basis of the Construction-Integration Model of Text Comprehension with Syntactic Cues. Evren Kapusuz.
- 2000 MSc Generation of Turkish Surface Form From a Morphemic Lexicon. Burcu Karagöl-Ayan.
- 1999 MSc German to Turkish Translation using Structural Transfer. Selçuk Köprü.
- 1999 MSc Machine Learning and Language Acquisition: A Model of Child's Learning of Turkish Morphophonology. Yasemin Altun.
- 1998 MSc A Unification-based Tool for Learning Turkish Morphology. İzzet Pembeci.
- 1997 MSc Contextually Appropriate Anaphor/Pronoun Generation for Turkish. Özgür Yüksel.
- 1997 MSc Quasi-Logical Form to Case Frame Mapping for English to Turkish Machine Translation. Bahadır Pehlivan Türk.
- 1996 MSc X-windows Based Lexical Database Tool. Tolga Yıldırım.
- 1996 MSc A Sign-based Phrase Structure Grammar for Turkish. Onur Şehitoğlu.
- 1996 MSc A Word Grammar of Turkish with Morphophonemic Rules. Murat Öztaner.
- 1995 MSc Incremental Conceptual Clustering Without Order Dependency. İlker Altıntaş.

## SERVICE

- 2011-2020 Chair, Cognitive Science department, Informatics Institute, METU.  
 2015-2021 Designer and developer, **CCG1ab**, Ankara, Lisbon.  
 2010-2011 Editorial board: Versita Publishers. For Linguistics series.  
 2010-2015 Evaluator: MUDEK/Eur-Ace accreditation for degrees related to computing.  
 2006 Organizer: Ankara Linguistic Circle (ALC).  
 2005 Lecturer: European Summer School in Logic, Language and Information (ESSLLI), Edinburgh.  
 2002- Panelist: TUBITAK grants related to computing and language.  
 1996 Founder. METU Cogsci program. with D. Zeyrek, S. Bağçe, G. Tekman.  
 1996-2018 Program design for Cognitive science: Phd, Ms with thesis, MS without thesis.  
 1994-2011 Founder and director: Laboratory for the Computational Studies of Language (LcsL), METU.  
 1993 – Reviewer: *Computational Linguistics*, *Lingua*, *Natural Language Engineering*, *Information Processing Management*, *Research in Linguistics* [in Turkish], *Elektrik*, *NeMLAP*, *ACL*, *EMNLP*, *ESSLLI*, *DepLing*, *TAINN*.  
 2014/2018 PC co-chair, ISBCS.  
 1994 PC co-chair, TAINN.  
 1996 – 1997 Cognitive Science Graduate Program Design, METU.  
 1993 – 2000 ABET report and preparation, METU.  
 2001 – 2002 Advisor to chair, Computer Engineering, METU.  
 1992 – 1994 Vice chair, Computer Engineering, METU.

#### **COURSE DEVELOPMENT** (at METU unless specified)

- 2020 Cogs579: Philosophy of Computer Science.  
 2018 CEng444: Language processors. (Compilers) RISC V and Lisp.  
 2013 Cogs517: Philosophy of Cognitive Science. added: phil. of AI and computationalism.  
 2011 Cogs502: Logic and programming. added: Python programming and lambda-calculus.  
 2010 Cogs541: Language Acquisition, Part II: Computationalism. With Deniz Zeyrek. METU.  
 2010 Cogs42: Combinators in syntax and semantics. (Taught as Combinatory Linguistics at Boğaziçi University, Spring 2011.)  
 2009 Cogs503: Introduction to Cognitive Science. Taught jointly by the department.  
 2008 Cogs519: Grounding language and cognition in perception. With Nicolas Bulot and Annette Hohenberger.  
 2006 CEng729: Syntax, Semantics and Computation: CCG.  
 2005 Combinatory Categorical Grammar and Linguistic Diversity. European Summer School on Logic, Language and Information (ESSLLI), at Herriot-Watt University, Edinburgh. With Mark McConville.  
 2004 Cogs532: Theoretical Linguistics.  
 1999 Cogs501: Algorithmic structures in cognition.  
 1998 Cogs514/CEng584: Cognitive Aspects of Language Processing.  
 1993 CEng563: Computational Linguistics. Ohio Univ.  
 1993 CEng562: Machine Learning.  
 1992 CEng424: Logic for Computer Science. Ohio University, Computer Science dept.

#### **OTHER COURSES TAUGHT** Algorithmic Structures in Cognition. Formal Languages and



Abstract Machines. Programming Language Concepts. Introduction to Programming. Data Structures. Database Systems Design.

### SOME INVITED TALKS

- 7.8.2021 Dilbilimde temel sorular sormasak olmaz mı? Dilbilim Öğrenci Platformu.
- 6.5.2020 Idiosyncrasy in grammar. Boğaziçi Cognitive Science Colloq.
- 20.4.2019 Mandarin Chinese Double Nominatives. Xiangtan, China.
- 30.4.2017 Plans, Scripts, Discourse and Sentences, ISBCS IV, Hacettepe Univ.
- 17.2.2016 Learning to subcategorize for nominals and pronominals: Portuguese and Turkish (Univ. of Évora)
- 3.12.2015 Machine learning of clitics and its implications for language acquisition. (Univ. of Lisbon)
- 10.12.2014 Computationalism, pancomputationalism and explanation in cognitive science (Univ. Osnabruck)
- 8.12.2014 What seems to be unique about human recursion? (Univ. Bielefeld)
- 9.11.2012 Alan Turing: A century of computing (Bilkent University and METU)
- 9.5.2011 & Dependency, cognition and computation (Istanbul Technical University and Boğaziçi University)
- 6.6.2011
- 11.1.2011 Why is computationalism relevant to language acquisition? (Koc University, & Psychology seminars; Psycholinguistics and Cognitive Science Meeting, at METU Informatics)
- 22.10.2010
- 16.10.2009 Bir dilbilim yaklaşımı olarak radikal sözlükçülük [Radical lexicalism as a linguistic paradigm]. Anadolu Univ. Language and Philosophy seminars.
- 19.12.2008 Schonfinkel'den Dilbilime Anlam ve Dizim [Semantics and Syntax From Schonfinkel to Linguistics]. ODTU Felsefe Bol. 25. Yıl 'Anlam' Kongresi.
- 10.10.2008 Meaning, form and adjacency: Schönfinkel's legacy. Ankara Linguistic Circle.
- 3.4.2008 What do we parse when we parse? Bogazici Univ. Linguistics Colloq.
- 8.3.2008 Computationalism as a philosophy of science in cognitive science. METU Philosophy and Cognition Workshop.
- 13.8.2007 Word learning as a search problem. Edinburgh Univ., Language Evolution and Computation (LEC) Seminars.
- 10.5.2007 Turkce'de Ezgi: Sozdizim ve edimle Iliskisi [Turkish Intonation: Its relations to syntax and pragmatics]; with Umut Ozge and Asli Goksel. Mersin XXI. Dilbilim Kurultayi.
- 23.3.2007 Dil ne degildir? (What language is not) Abant Izzet Baysal Universitesi, Psikoloji.
- March 2007 Type-dependence of Language. Ankara Linguistic Circle.
- March 2007 Two notions of category in linguistics: Some (really naive) Algebra. METU Applied Mathematics Colloq.
- 19.1.2006 Lexical Integrity and Lexical Organisation. CL and Phonology Colloquium, Saarbrücken.

- 8.12.2004      Kultur oncesi Dil [Language before culture]. Gercek Seminerleri, Ankara.  
 5.11.2004      Zihinsel Sozlukte Dilbilgisi [Mental grammar]. Hacettepe Dilbilim, Ankara.  
 31.3.2004      Parametric lexicons. ICCS/HCRC seminars, Edinburgh University.  
 2-3/2003      Lexical Origins of Word Order and Word Order Flexibility. Edinburgh Linguistic Circle, Antwerp Typology Seminars.  
 18.11.2003      Inflectional Morphology as Syntax. Edinburgh ICCS/HCRC Seminars.  
 9.11.2001      (Yapay) Zeka ve Dil [(Artificial) Intelligence and Language]. METU.

## PERSONAL

Full name on records    Hüseyin Cem Bozsahin  
 Date of Birth            14 November 1959  
 Languages              Turkish (native), English (fluent).  
                               Lisp, Python, Prolog, shells, ML, C  
 Residency              Turkish Citizen  
 Contact                  cem.bozsahin@gmail.com