

Ayşegül Kıvılcım

PERSONAL DATA

DATE OF BIRTH:	22 October 1985
PLACE OF BIRTH:	Balıkesir, Turkey
ADDRESS:	Yüzüncüyıl İşçi Blokları A blok, No: 47, 06800 Ankara Turkey
PHONE:	+90-505-7694368
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EDUCATION

July 2016– Sept 2009	Integrated PhD , <i>Middle East Technical University</i> , ‘Discontinuous dynamics with grazing points’, under the supervision of Marat Akhmet.
Sept 2004– Sept 2009	BSc in Mathematics , <i>Middle East Technical University, Ankara</i> .

PUBLICATIONS

2015	The models with impact deformations , <i>Discontinuity, Nonlinearity and Complexity</i> , 4(1):49-78, 2015, with Marat Akhmet.
2016	Li-Yorke chaos generation by SICNNs with chaotic/almost periodic postsynaptic currents , <i>Neurocomputing</i> , Volume 173, Part 3, 15 January 2016, Pages 580-594, with Marat Akhmet and Mehmet Onur Fen.
2016	Discontinuous dynamics with grazing points , <i>Communications in Nonlinear Science and Numerical Simulation</i> , Volume 38, 2016, Pages 218-242 with Marat Akhmet.
2016	An impact oscillator with a grazing cycle , <i>Discontinuity, Nonlinearity and Complexity</i> , with Marat Akhmet (accepted).
2016	Stability in non-autonomous periodic systems with grazing stationary impacts , <i>Carpatian Journal of Mathematics</i> , with Marat Akhmet (accepted).
2016	Non-autonomous grazing phenomenon , <i>Nonlinear Dynamics</i> , with Marat Akhmet (accepted)

PREPRINTS

- 2016 **Perturbations of the grazing cycles in non-autonomous system with stationary impulse action**, with Marat Akhmet (in preperation).
- 2016 **Van der Pol oscillators generated from grazing dynamics**, with Marat Akhmet (in preperation).

TALKS AT INTERNATIONAL CONFERENCES

- Aug 4-9,
2014 **SICNNs with Chaotic/Almost Periodic Postsynaptic Currents**, 5th International Conference on Nonlinear Science and Complexity, *Academic Exchange Center, Nan-Yang Hotel, Xi'an Jiaotong University, China.*
- Oct 19-22
2014 **Chaos by neural networks: the quasi-periodic route**, International Conference on Applied Informatics for Health and Life Sciences in conjunction with Turkish-German Workshop on Bioinformatics: Recent Developments from Health to Nanotechnology, *Kuşadası, Turkey.*
- July 1-4,
2015 **Chaos by neural networks: the quasi-periodic route**, 10th Colloquium of the Qualitative Theory of Differential Equations (10QTDE), *Bolyai Institute, University of Szeged, Hungary.*

CONFERENCE PARTICIPATION

- Oct 12-13,
2012 **First Workshop on Complex Dynamical Systems and Their Applications**, *TOBB University of Economics and Technology, Ankara, Turkey.*
- Oct 24-26,
2013 **Second Workshop on Complex Dynamical Systems and Their Applications**, *Işık University, İstanbul, Turkey.*
- Nov 24-26,
2014 **Third International Conference on Complex Dynamical Systems and Their Applications: New Mathematical Concepts and Applications**, *TOBB University of Economics and Technology, Ankara, Turkey.*

CONFERENCE PROCEEDINGS

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| 19-22
October
2014 | M. Akhmet, M. O. Fen ve A. Kivilcim. Chaos by neural networks: the quasi-periodic route International Conference on Applied Informatics for Health and Life Sciences in conjunction with Turkish-German Workshop on Bioinformatics: Recent Developments from Health to Nanotechnology, Pages 119-123, Kusadasi-TURKEY. |
| 25-28
August,
2015 | M. Akhmet ve A. Kivilcim. Vertical and Horizontal grazing, Dynamic Systems and Applications Proceeding of International Conference on Pure and Applied Mathematics, ICPAM 2015, Van-Turkey (accepted)(to be appeared in Dynamical systems applications. |

TEACHING

- | | |
|---------------------|--|
| Fall 2015 | Calculus with analytic geometry I , teaching assistant, <i>Middle East Technical University</i> . |
| Fall/Spring
2015 | Calculus I-II , teaching assistant, <i>Middle East Technical University</i> . |
| Spring
2014 | Advance calculus in statistics , teaching assistant, <i>Middle East Technical University</i> . |
| Spring
2014 | Partial Differential Equations , teaching assistant, <i>Middle East Technical University</i> . |
| Spring
2013 | Differential Equations , teaching assistant, <i>Middle East Technical University</i> . |
| Fall
2011-2013 | Introduction to differential Equations , grading assistant, <i>Middle East Technical University</i> . |
| Fall
2009-2013 | Calculus with analytic geometry I-II , teaching assistant, <i>Middle East Technical University</i> . |

WORKSHOPS ORGANISED

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| Oct 12-13,
2012 | First Workshop on Complex Dynamical Systems and Their Applications , <i>TOBB University of Economics and Technology, Ankara, Turkey</i> . |
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PROJECT

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| 2012-2014 | Tübitak Research Project 111T320. |
| 2012-2013 | Middle East Technical University Scientific Research Project No: BAP-01-01-2012-003. |

LANGUAGES

Turkish (native speaker)

English (fluent)

German (elementary)