

HASHEM KOOHY

Work

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Objective

To secure a position in which my Degrees and Skills may be utilized in *research* and *education*

Education

- **PhD in Systems Biology**, Warwick University, Coventry. *2007- Present*
Establishment of an alignment-free method for detection of functional conservation of regulatory sequences. Thesis to be submitted by September 2010.
- **MSc in Mathematical Biology**, MOAC, Warwick University. *2006-2007*
Modules included Mathematical Modeling, Statistics/Bioinformatics, Molecular Simulations, Numerical Methods, Data Acquisition. Mini projects included: Simulation of spatio-temporal protein distribution with GDF, Decoding calcium signals in human myometrium and Measurement of DNA persistence length.
- **Ph.D. Non-Commutative Ring Theory**, Ahvaz University, Iran. *2000-2004*
Development and classification of the concept of the prime notion in modules.
- **M.Sc. in Group theory**, Tehran Teacher Training University. *1996-1998*
- **B.Sc. in Mathematics**, Razi University, Kermanshah, Iran. *1992-1996*
- **Diploma in Mathematics and Physics**, Beheshti Highschool, Shiraz, Iran. *1988-1992*

PUBLICATIONS Applied Mathematics

- Hashem Koohy, et al. "*Detection of Functional Regions of GH146: A Computational and Experimental Approach*", in preparation.
- Hashem Koohy, et al. "*An Alignment-Free Model for Detection of Functional Conservation of Regulatory Sequences*", submitted.
- Hashem Koohy, et al. "*Is DNA a worm-like chain in Couette? In search of persistence length, a critical review*", Science Progress, volume 92, Number2, page 163-204, July 2009.

Pure Mathematics

- H. Koohy, "*On finiteness of multiplication modules*", Acta Mathematica Hungaria, volume 118, Numbers 1-2, pages 1-7, 2008.
- H. Koohy, O.A.S. Karamzadeh, M. Behboodi, "*Modules whose certain Submodules are Prime*", Vietnam Journal of Mathematics 32:3 (2004) 303-317.
- H. Koohy and M. Behboodi, "*Weakly Prime Submodules*", Vietnam Journal of Mathematics, 32:2 (2004) 185-195.

- H. Koohy and M. Behboodi, "On Minimal Prime Submodules", Far East Journal of Mathematical Science, v 26, n 6 2002 p123-131.

Talks & Posters

- H Koohy, "An alignment-free model for detection of functional conservation of regulatory sequences", Poster, Cold Spring Harbor, March 2010.
- H Koohy, "Simulation of spatial-temporal protein distribution with GDF", 24-27 May 2007, MOAC Annual Conference.
- H. Koohy, "A generalization of Andersons Theorem", Poster, ICM (International Congress of Mathematics), Madrid, 2006.
- H Koohy, "On multiplication modules", Goldie Memorial Meeting, University of Warwick, March 2006.
- H. Koohy, "On Cohens Theorem", 14th Algebra Seminar, Al-Zahara University, Iran, June 2002.

CAREER SUMMARY

Mathematics Supervisor(p/t), Dept. of Mathematics, Warwick Uni. 2007-Present

- To supervise undergraduate students from Mathematics and Statistics in their assignments over a variety of maths' subjects.

Mathematics Instructor(p/t), Dept. of Mathematics, Warwick Uni. 2004-2006

- Have been charged for some support classes include: "Rings and Modules", Algebra II, Algebraic Number Theory.
- Responsible for answering student questions in relation to the courses in the classroom environment, marking their assignments, recording and reporting them to the lecturer
- Proofing all questions from example sheets and leading the class during the lecturer's absence

Head of Department, Azad University of Masjed Soleyman, Iran. 2002-2003

- To further develop and promote the department.
- To ensure that staff are designated to undertake important roles.
- To prepare and coordinate all students programs of work.
- To establish an effective management structure.

Mathematics Instructor, Azad University of Masjed Soleyman, Iran. 19 Feb. 2000-19 Feb. 2002

- Taught a variety of algebra courses including Group Theory, Ring theory, Module theory and Linear algebra) also Differential Equations, Basis of Mathematics and Statistics.

Mathematics Instructor, Bright Intelligent Centre of Ahvaz, Iran. 19 Sep. 1999- 20 Sep. 2000

- Responsible for teaching calculus and preparing the students for The Mathematics Championship (Olympia Competition) for one year.

Mathematics Instructor, Azad University of Majlesi, Esfahan, Iran. 19 Sep. 1997-22 Mar. 1999

- Taught a good variety of different courses of Mathematics to engineering students.

Teacher of Mathematics, Shahre Raye Highschool, Tehran.

1994- 1997

- Responsible for teaching Mathematics (equivalent to A-Levels and GCSE) to students aged 12-19

ACHIEVMENTS **Grants**

- Awarded a scholarship from The Ministry of Higher Education, Iran, for completion of my PhD project.
- Awarded a grant from the Institute of Foundations of Science, Tabriz, for a part of my PhD project.
- Received an academic prize from the Department of Mathematics at Razi University for establishing an elegant proof for a highly complex mathematical question.

Honors

- LMS: Membership of London Mathematical Society from 2004.
- IMS: Membership of the Iranian Mathematical Society from 2000.
- Mathematics Championships: Chosen twice to attend the Iranian Mathematics Olympia competition.
- Chosen as a top student during the B.Sc. at the Razi University.

FURTHER SKILLS

Programming languages: C++, Perl/Bioperl and R/Bioconductor in an advanced level, basics of Mathematica, very keen to learn Matlab.
Operating systems: Linux, Mac and Windows.
Communication languages: A very good level of proficiency in English, Persian as native language, basics in Turkish and Arabic.

PERSONAL DETAILS

Date of Birth: 30-04-72 *Nationality:* Iranian.
Residence status: UK Residents (work permit holder) *Driving Licence:* British/full.

REFEREES

- Dr. Sascha Ott,
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