

Atiya H. Zaidi

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Career profile

University academic with 3 years teaching experience (UNSW); 8 months experience as academic director of a Mathematics teaching and learning unit, the Student support Scheme (UNSW); and 6 years lecturing experience (Pakistan).

Expertise in \LaTeX , Maple and SPSS.

Ability to work with, lead and manage effectively a team of academics with various academic and cultural backgrounds

Academic profile

Ph.D. Applied Mathematics, UNSW Australia, submission Nov 09

Thesis title: Existence and uniqueness of solutions to first order dynamic equations on time scales

MEd.Admin (by research), UNSW Australia, 2003–05

Thesis title: Leadership behaviours of heads of schools and departments in Australian and Pakistani universities

M.Phil. (partly research) Mathematics, QAU Pakistan, 1999–2000

Thesis title: Asymptotic behaviour of proper distance and volume with York time in the Schwarzschild region of a suture model universe

Published Papers

“Successive approximations to solutions of dynamic equations on time scales,” C. C. Tisdell and A. H. Zaidi, *Comm. Appl. Nonlinear Anal.* 16 (2009), no. 1, pp.61–87.

“ Basic qualitative and quantitative results for solutions to nonlinear, dynamic equations on time scales with an application to economic modelling,”C. C. Tisdell and A. Zaidi, 68 (2008), no. 11, pp. 3504–3524.

“ Length and volume of Qadir-Wheeler Suture model, ” Atiya-tul-Hussain and Asghar Qadir, *Phys.Rev.D.* 63 (2001) , no. 8, 083502.

Employment

Associate Lecturer and Academic director
Student Support scheme
School of Mathematics and Statistics

2009

UNSW, Australia

Currently leading a teaching and learning unit of School of Mathematics and statistics, the Student Support Scheme (SSS), which provides one-on-one peer support to about 1500 undergraduates per session. Responsibilities include hiring, supervising and organising professional development resources for a team of 23 tutors for SSS. Provided professional training to tutors by conducting teaching and learning workshops. Prepared material for the workshops in the form of seminars, interactive activities and critique sessions. Responsible for the SSS publicity. Conducted professional assessment of SSS at the end of the session and prepared reports.

Prepared and delivered lectures on the “Dynamic equations on time scales” part of the third year undergraduate course, ‘Dynamical systems and Chaos’. The content included the time scale calculus and important aspects of linear and non-linear theory in the field of dynamic equations on time scales. Devised and marked exam questions. Teaching to classrooms required a high level of communication skills for the clear articulation of key concepts and ideas.

Tutored the first and second year undergraduate calculus and algebra courses.

Lecturer
Federal Directorate of Education

1996–2002, 2005–06
Islamabad, Pakistan

Worked as research coordinator performing instrument development, data collection, analysis and reporting for departmental surveys and analyses.

Lectured a range of Mathematics courses to undergraduate students. Prepared lecture notes; planned courses; set and marked exam papers; administered the time table, exams and student co-curricular activities. High communication skills in English were required in helping students to achieve their goals.

Professional skills

Academic skills:

Interactive teaching methods with shared learning approach

OH and video presentation

Social and administrative skills to establish independent or team work environment especially in a multi-cultural population

Software skills

Maple, Power point, Word processing, spreadsheets, \LaTeX , SPSS, computer skills related to Internet communication and database research and manipulation.

Professional memberships

Australian Mathematical Society, International Society of Difference Equations.

References

Available on request.