CURRICULUM VITAE

1 Personal

Name	Dr. Pedro Henrique de Almeida Konzen
Birthdate	June 12, 1981
Profession	Professor, IME, UFRGS
Nationality	Brazilian

2 Education

1988 - 1995	Elementary School, Santa Cruz do Sul, Brazil
1996 - 1998	Secondary School, Santa Cruz do Sul, Brazil
1999 - 2004	Studies in Computational and Applied Mathematics Universidade Federal do Rio Grande do Sul - UFRGS Porto Alegre, Brazil
2004 - 2006	Master in Applied Mathematics Dissertation title: "Estudo de um modelo convectivo-difusivo-reativo em combustão no método de elementos finitos" Supervisor: Prof. Dr. Álvaro Luiz de Bortoli CAPES full Research scholarship Graduate Program in Applied Mathematics (PPGMAp) Universidade Federal do Rio Grande do Sul - UFRGS Porto Alegre, Brazil
2006 - 2010	Doctorate in Applied Mathematics (2006 - 2008) CAPES research scholarship (2008 - 2010) DAAD/CAPES two-years research scholarship as part of the doctorate research project Interdisciplinary Center for Scientific Computing (IWR) Universität Heidelberg, Heidelberg, Germany

Thesis title: “Simulação numérica de chama laminar axi-simétrica de metano/ar usando REDIM”
Supervisor: Prof. Dr. Álvaro Luiz de Bortoli
Graduate Program in Applied Mathematics - PPGMAp
Universidade Federal do Rio Grande do Sul - UFRGS
Porto Alegre, Brazil

3 Working Experiences

2010	Guess Professor Universidade Federal da Integração Latino-Americana - UNILA Foz do Iguaçu, Brazil
2011 - 2014	Professor Universidade Federal da Integração Latino-Americana - UNILA Foz do Iguaçu, Brazil
since 07/2014	Professor Instituto de Matemática e Estatística - IME Universidade Federal do Rio Grande do Sul - UFRGS Porto Alegre, Brazil
since 04/2020	Researcher Graduate Program in Applied Mathematics - PPGMAp Instituto de Matemática e Estatística - IME Universidade Federal do Rio Grande do Sul - UFRGS Porto Alegre, Brazil
11/2021	Research visit Numerics in Application Group Faculty of Mathematics Institute of Analysis and Numerics Otto-von-Guericke Universität Magdeburg, Germany

4 Languages

Portuguese	native proficiency
English	full professional proficiency
Spanish	working knowledge
German	intermediate skills

Main Publications

- KONZEN, P.H.A.; Guidi, L.F.; RICHTER, T.. Quasi-Random Discrete Ordinates Method to Radiative Transfer Equation with Linear Anisotropic Scattering. DEFECT AND DIFFUSION FORUM, v. 427, p. 109-119, 2023.

- CORREA, C.; KONZEN, P.H.A.; CARVALHO, Â.R.; GIOVANELLA, P.; BENTO, F.M.; FERRÃO, M.F.. Use of digital images to count colonies of biodiesel deteriogenic microorganisms. JOURNAL OF MICROBIOLOGICAL METHODS, v. 178, p. 106063, 2020.

- SAUTER, E.; DE AZEVEDO, F.S.; KONZEN, P.H.A.. Nyström Method Applied to the Transport Equation in a Semi-Reflective Rectangle. JOURNAL OF COMPUTATIONAL AND THEORETICAL TRANSPORT, v. 47, p. 520-541, 2019.

- KONZEN, P.H.A.; Guidi, L.F.; RICHTER, T.. Quasi-random discrete ordinates method for neutron transport problems. ANNALS OF NUCLEAR ENERGY, v. 133, p. 275-282, 2019.

- AZEVEDO, F.S.; SAUTER, E.; KONZEN, P.H.A.; THOMPSON, M.; BARRICHELLO, L.B.. Integral formulation and numerical simulations for the neutron transport equation in X-Y geometry. ANNALS OF NUCLEAR ENERGY, v. 112, p. 735-747, 2018.

- KONZEN, P.H.A.; SAUTER, E.; AZEVEDO, F.S.; ZINGANO, P.R.A.. Numerical Simulations with the Galerkin Least Squares Finite Element Method for the Burgers' Equation on the Real Line. TEMA - Tendências em Matemática Aplicada e Computacional, v. 18, p. 287-304, 2017.

- KONZEN, P.H.A.; SAUTER, E.; AZEVEDO, F.S.. Green Function Formulation and Finite Element Discretization for Solving the Heat Radiative Transfer in a Slab. JOURNAL OF COMPUTATIONAL AND THEORETICAL TRANSPORT, v. 45, p. 368-385, 2016.

- DE AZEVEDO, F.S. ; SAUTER, E.; KONZEN, P.H.A.; THOMPSON, M.. Numerical results for the transport equation with strongly anisotropic scattering in a slab. ANNALS OF NUCLEAR ENERGY, v. 79, p. 61-67, 2015.

- KONZEN, P.H.A.; RICHTER, T.; RIEDEL, U.; MAAS, U.. Implementation of RE-DIM reduced chemistry to model an axisymmetric laminar diffusion methane-air flame. COMBUSTION THEORY AND MODELLING, v. 15, p. 299-323, 2011.