

Curriculum Vitæ - Josef Kiendl

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Personal data and contact information

Born: December 16, 1980 in Deggendorf, Germany
Address: University of the Bundeswehr Munich,
Department of Civil Engineering and Environmental Sciences
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Education and Academic Positions

since 2020 Full professor at the Institute of Engineering Mechanics Structural Analysis, Department of Civil Engineering and Environmental Sciences, Bundeswehr University Munich
since 2020 Adjunct Associate Professor at the Department of Marine Technology, NTNU Trondheim
2016-2019 Associate Professor (Onsager fellowship) at the Department of Marine Technology, NTNU Trondheim
2015-2016 Assistant Professor (Juniorprofessor) at the Institute for Applied Mechanics, Department of Civil Engineering, TU Braunschweig
2012-2015 Postdoctoral Researcher at the Department of Civil Engineering and Architecture, Computational Mechanics and Advanced Materials Group, University of Pavia, Italy
2011 PhD with highest distinction (summa cum laude). Thesis: *Isogeometric Analysis and Shape Optimization of Shell Structures*, TU Munich, Germany
2007-2011 PhD student of the *International Graduate School of Science and Engineering* (IGS-SE), at the Chair of Structural Analysis, TU Munich, Germany
2005 Master's Degree
2000-2005 Student of civil engineering at TU Munich, Germany

Non-academic professional experience

2011 Project manager at DrillTec GmbH for the Poland Shale Gas drilling project, Malbork, Poland
2005-2007 Project engineer at Max Streicher GmbH for the Adriatic LNG pipeline project in Porto Viro, Italy

Research stays abroad

- 2014 Visiting scholar (2 weeks) at Prof. Hughes, ICES, University of Texas at Austin
- 2013 Visiting scholar (1 month) at Prof. Hughes, ICES, University of Texas at Austin
- 2010 Visiting scholar (1 month) at Prof. Bazilevs, Department of Structural Engineering, University of California, San Diego (UCSD)
- 2009 Visiting scholar (2 months) at Prof. Bazilevs, Department of Structural Engineering, University of California, San Diego (UCSD)

Awards

- 2019 *ERC Consolidator grant*
- 2017 *Highly Cited Researcher* according to Clarivate Web of Science
- 2016-2019 *Onsager Fellowship* of NTNU, awarded to young, internationally recognized researchers to strengthen the university's academic community.
- 2016 *Richard-von-Mises Prize*, awarded by the International Association of Applied Mathematics and Mechanics (GAMM) in acknowledgment of scientific achievement in the area of applied mathematics and mechanics.
- 2013 *GAMM Award 2013* for organizing a Young Researcher Minisymposium at the 84th Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM)
- 2011 *PhD Dissertation Award* of the Association of Friends of the Technical University of Munich to the six best PhD dissertations at TU Munich in 2011
- 2007-2011 *PhD stipend* of the International Graduate School of Science and Engineering (IGSSE) at TU Munich

Publications and citations

- 52 papers in peer-reviewed international journals, a detailed list is found attached
- 4710 citations, h-index 30 according to *Google Scholar*
- 3348 citations, h-index 26 according to *Scopus*
- 2954 citations, h-index 25 according to *Web of Science*

Research projects and third-party funding

- 2020-2025 ERC Consolidator Grant of the European Research Council: *Structural multiscale modelling of extrusion-based 3D and 4D printed materials*. Funding: €2,000,000. Role: Project manager
- 2020-2024 DTEC-FLAB3D: *Research laboratory for additive manufacturing*. Funding: €10,000,000. Role: Leader of one work package
- 2018-2019 NTNU-internal call for funding research projects: *3D printing of bio-inspired architected materials*. Funding: NOK 2,330,000 (€240,000) Role: Project manager

- 2017-2020 Knowledge-Building Project for Industry of the Norwegian Research Council (NRC): *Flexible propulsors for marine applications*. Partners: Sintef Ocean, Rolls Royce Marine. Funding: NOK 16,550,000 (€1,700,000) Role: Leader of one work package, supervisor for one PhD student
- 2019-2020 Mobility grant of the German Academic Exchange Service (DAAD) and Norwegian Research Council (NRC): *Spline-based Methods for Fluid-Structure Interaction in liquid storage tanks under seismic loading*. Sum: €20.700 Euro. Role: Project manager Norwegian side
- 2018-2019 Mobility grant of the German Academic Exchange Service (DAAD) and Norwegian Research Council (NRC): *Isogeometric phase-field modeling of fatigue in slender structures*. Sum: €18.500 Euro. Role: Project manager Norwegian side
- 2018 Funding by the Norwegian Shipowners Association for financing a FDM 3D-printer. Sum: NOK 30,000 (€3,100). Role: Project manager

Conference contributions

- 1 Plenary lecture, at the ECCOMAS thematic conference IGA 2019
- 2 Semiplenary lectures, one at the ECCOMAS congress 2022
- 4 Keynote lectures
- 35 Contributions as first author, of which 25 invited
- 47 Contributions as coauthor

A detailed list is found in the attached list of conferences

Invited talks at seminars and workshops

- 2019 Lecture for the *EU regional school* at Aachen Institute for Advanced Study in Computational Engineering Science (AICES), RWTH Aachen University, Aachen, Germany
- 2018 Presentation at the first KSCM-GACM Joint Workshop, Seoul, South Korea
- 2018 Seminar at the Chair of Numerical Modelling and Simulation of EPFL Lausanne, Switzerland
- 2018 Seminar at the Aachen Institute for Advanced Study in Computational Engineering Science (AICES), RWTH Aachen University, Aachen, Germany
- 2017 Seminar at the Digital Manufacturing and Design (DManD) Centre, Singapore University of Technology and Design (SUTD), Singapore
- 2017 Seminar at the Centre for Advanced Structural Analysis (CASA), NTNU Trondheim, Norway
- 2017 Seminar at the Department of Civil Engineering and Architecture, University of Pavia, Italy

- 2017 Seminar at the Aachen Institute for Advanced Study in Computational Engineering Science (AICES), RWTH Aachen University, Aachen, Germany (*declined due to illness*)
- 2014 Seminar at the Department of Civil Engineering and Architecture of Aalto University, Espoo, Finland
- 2014 Seminar at the Aerospace Engineering Department of Iowa State University, Ames, USA
- 2013 Seminar at the International School of Advanced Studies (SISSA), Trieste, Italy
- 2012 Lecture at the Summer School *IsoGeometric Analysis: a New Paradigm in the Numerical Approximation of PDEs* of the International Mathematical Summer Center (CIME), Cetraro, Italy
- 2011 Lecture for the *Seminar of the Department of Structural Mechanics*, TU Kaiserslautern, Germany
- 2010 Presentation at *FE im Schnee*, Hirschegg, Austria:
- 2009 Presentation at the *International Workshop on Environment and Alternative Energy (organized by NASA, G3P, and GE)*, Munich, Germany
- 2009 Presentation at the *First International Workshop on Computational Engineering - Special Topic Fluid-Structure-Interaction*, Herrsching, Germany
- 2009 Presentation at the *International Workshop, Technology and Society*, Weimar, Germany

Organization of congresses and symposia

- 2022 Minisymposium *IGA for Solids and Structures* within the 10th International Conference on Isogeometric Analysis, Banff, Canada
- 2022 Minisymposium *Non-material modelling of axially moving continua: Arbitrary Lagrangian-Eulerian description in structural mechanics*, within WCCM-APCOM 2022: the joint 15th World Congress on Computational Mechanics and 8th Asian Pacific Congress on Computational Mechanics, Yokohama, Japan
- 2022 Minisymposium *Nonlinear mechanics of beam, plate, membrane and shell structures: models and methods*, within ICoNSoM 2022: International Conference on Nonlinear Solid Mechanics, Sardinia, Italy
- 2021 Minisymposium *Solids and Structures* within VIGA2021: Virtual International Conference on Isogeometric Analysis, Lyon, France
- 2020 Minisymposium *IGA for Solids and Structures* within the USACM thematic conference on Isogeometric Analysis, Banff, Canada
- 2020 Minisymposium *Computational analysis and methods for solids, structures, and metamaterials within generalized continua*, within the joint 14th World Congress in Computational Mechanics and ECCOMAS Congress, Paris, France

- 2019 Minisymposium *Collocation*, within the 7th International Conference on Isogeometric Analysis, Munich, Germany
- 2019 Minisymposium *Novel Formulations and Discretization Methods for Thin-walled Structures*, within the 8th GACM Colloquium on Computational Mechanics, Kassel, Germany
- 2019 Minisymposium *Complex Structures and Microarchitectures of Metamaterials*, within the International Conference on Nonlinear Solid Mechanics, Rome, Italy
- 2018 Minisymposium *Solids and Structures* within the USACM thematic conference IGA 2018: Integrating Design and Analysis, Austin TX, USA
- 2018 Minisymposium *Computational analysis and methods for solids and structures within generalized continua*, within the 6th European Conference on Computational Mechanics, Glasgow, United Kingdom
- 2017 Minisymposium *Non-standard Formulations and Discretization Methods for Thin-walled Structures*, within the 7th GACM Colloquium on Computational Mechanics, Stuttgart, Germany
- 2017 Thematic Session *IGA of solids and structures*, within the ECCOMAS Thematic Conference on Isogeometric Analysis, Pavia, Italy
- 2016 Thematic Session *IGA and Meshfree methods for thin structures*, within the USACM Thematic Conference on Isogeometric Analysis and Meshfree Methods, La Jolla, USA
- 2015 Minisymposium *Isogeometric Methods for Structural Mechanics*, within the joint conference 3rd ECCOMAS Young Investigators Conference (YIC) and 6th GACM Colloquium on Computational Mechanics, Aachen, Germany
- 2014 Minisymposium *Isogeometric Methods*, within the conference WCCM 2014 - World Congress on Computational Mechanics, Barcelona, Spain
- 2013 Minisymposium *Advanced Methods for Computational Mechanics: Beyond Classical Finite Elements*, within the 21st Congress of the Italian Association of Theoretical and Applied Mechanics (AIMETA), Turin, Italy
- 2013 Young Researcher Minisymposium *Isogeometric Methods*, within the 84th Annual Meeting of the International Association of Applied Mathematics and Mechanics (GAMM), Novi Sad, Serbia

Participation in congress scientific boards

- 2022 USACM Thematic Conference on Isogeometric Analysis, Banff, Canada
- 2021 VIGA2021: Virtual International Conference on Isogeometric Analysis, Lyon, France
- 2019 International Conference on Isogeometric Analysis, Munich, Germany
- 2018 USACM Thematic Conference on Isogeometric Analysis, Austin (TX), USA
- 2017 ECCOMAS Thematic Conference on Isogeometric Analysis, Pavia, Italy
- 2016 USACM Thematic Conference on Isogeometric Analysis and Meshfree Methods, San Diego, USA

Member of Journal Editorial Boards

since 2021 Modelling

since 2018 Material Design & Processing Communications

Reviewer for international journals

- Computer Methods in Applied Mechanics and Engineering
- Proceedings of the National Academy of Sciences of the United States of America
- Proceedings of the Royal Society B
- Computational Mechanics
- International Journal for Numerical Methods in Engineering
- Computer-Aided Design
- Computers and Mathematics with Applications
- Biomechanics and Modeling in Mechanobiology
- Computers and Structures
- Marine Structures
- Fatigue & Fracture of Engineering Materials & Structures
- Engineering Structures
- Applied Mathematical Modelling
- European Journal of Mechanics - A/Solids
- Finite Elements in Analysis and Design
- Computer Aided Geometric Design
- Mechanics Research Communications
- Journal of Mechanics of Materials and Structures
- International Journal of Architectural Heritage
- Part C: Journal of Mechanical Engineering Science
- Engineering Computations
- Journal of Manufacturing Science and Engineering
- Journal of Theoretical and Applied Mechanics
- Mechanics Based Design of Structures and Machines
- Acta Mechanica
- Meccanica
- Engineering with Computers
- Biomedical Engineering/Biomedizinische Technik

Reviewer for international research funding agencies

- German Science Foundation (DFG)

- Austrian Science Fund (FWF)
- European Science Foundation (ESF)
- European Energy Research Alliance (EERA)
- Netherlands Organisation for Scientific Research (NWO)
- Swedish Research Council (SRC)
- Italian Ministry of Public Education (MIUR)
- Research Grant Council (RGC) of Hongkong

Reviewer in PhD and Habilitation committees

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| 2020 | Habilitation thesis on <i>Multifield Modelling in Computational Mechanics</i> , University of Innsbruck, Austria |
| 2020 | PhD thesis on <i>CAD-integrated Isogeometric Analysis and Design of Lightweight Structures</i> , TU Munich, Germany |
| 2019 | PhD thesis on <i>Isogeometric Modeling for the Optimal Design of Aerostructures</i> , INSA Lyon, France |
| 2017 | PhD thesis on <i>Phase-field modeling and computations of brittle and ductile fracture for solids and shells</i> , TU Braunschweig, Germany |
| 2017 | PhD thesis on <i>Isogeometric mortar methods with applications in contact mechanics</i> , University of Pavia, Italy |
| 2016 | PhD thesis on <i>CAD-Integrated Design and Analysis of Shell Structures</i> , TU Munich, Germany |

Chair of PhD committees

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| 2022 | PhD thesis on <i>Investigations on the impact of metaphyllosilicates and calcined common clays on the rheology and early hydration of cements admixed with different superplasticizers</i> , UniBw Munich, Germany |
| 2022 | PhD thesis on <i>Modeling and experimental-numerical investigations on damage and failure of ductile metals</i> , UniBw Munich, Germany |
| 2020 | PhD thesis on <i>Biaxial experiments and numerical simulations with newly developed specimens for the prediction of damage and failure of ductile metals</i> , UniBw Munich, Germany |
| 2020 | PhD thesis on <i>Experimental and numerical investigations of the explosion-retardant effect of hedge plants</i> , UniBw Munich, Germany |
| 2020 | PhD thesis on <i>Bending behavior of fiber reinforced plastic pipes with multi-row bolt connections</i> , UniBw Munich, Germany |
| 2019 | PhD thesis on <i>Structural Control of Offshore Wind Turbines – Increasing the role of control design in offshore wind farm development</i> , NTNU Trondheim, Norway |

Teaching experience

since 2021	Lecturer for <i>Finite Element Analysis in Construction Engineering</i> , UniBw Munich (in German)
since 2020	Lecturer for <i>Structural Analysis</i> , UniBw Munich (in German)
since 2020	Lecturer for <i>Nonlinear Structural Analysis</i> , UniBw Munich (in German)
2017-2019	Lecturer for <i>Finite Element Methods for Structural Analysis</i> , NTNU Trondheim (in English)
2017-2019	Lecturer for <i>Marine Structures, Specialization Project</i> , NTNU Trondheim (in English)
2016	Lecturer for <i>Isogeometric Methods</i> , TU Braunschweig (in English)
2015-2016	Lecturer for <i>Numerical Methods in Engineering</i> , TU Braunschweig (in German)
2012-2015	Teaching assistant for <i>Mechanics of Solids and Structures</i> , University of Pavia (in Italian)
2009-2010	Teaching assistant for <i>Modeling and Simulation</i> , TU Munich (in English)
2008-2010	Teaching assistant for <i>Advanced Finite Element Methods</i> , TU Munich (in English)
2008-2009	Teaching assistant for <i>Finite Element Methods</i> , TU Munich (in English)
2002-2004	Tutor for <i>Mechanics of Solids and Structures</i> , TU Munich (in German)

Teaching training courses

2018	PEDUP: NTNU's Educational Program for New Academic Staff (seminar spanning two semesters, in total 100 hours)
2016	CDIO Workshop <i>The Teaching Trick</i> held at NTNU Trondheim

Supervision of PhD students and Postdocs

currently	Main supervisor of 8 PhD students and 3 Postdocs at UniBw and NTNU
2016-2021	Main supervisor of PhD thesis on <i>Isogeometric methods for modeling fracture and fatigue in plates and shells</i> at NTNU
2015-2017	Co-supervision of PhD thesis on <i>Phase-field models for brittle and ductile fracture in solids and structures</i> at TU Braunschweig
2013-2016	Co-supervision of PhD thesis on <i>Isogeometric methods for structural applications</i> at University of Pavia

Supervision of Master's and Bachelor's theses

2021	Bachelor's thesis <i>Applying concepts of artificial intelligence to structural mechanics problems with a focus on neural networks</i>
2021	Bachelor's thesis <i>3D-printed boat propellers: Fabrication and suitability of different materials in practical tests</i>

- 2021 Bachelor's thesis *3D-printing of beams with inhomogeneous cross sections for controlling the load-carrying behavior*
- 2021 Bachelor's thesis *Experimental investigation on the impact of different printing parameters on the macroscopic material parameters of 3D-printed specimens*
- 2019 Master's thesis *An isogeometric digital twin for the research vessel Gunnerus*
- 2019 Master's thesis *Isogeometric contact analysis*
- 2018 Master's thesis *Isogeometric structural analysis of wind turbine blades*
- 2018 Master's thesis *Isogeometric analysis of thin structures with trimmed geometries*
- 2016 Co-supervision of Master's thesis on *Numerical stability analysis of thin-walled cylindrical shells*
- 2016 Co-supervision of Bachelor's thesis on *Engineering mechanics - Experiment and simulation*
- 2010 Master's thesis *Isogeometric Analysis with CARAT++*, awarded with the "Johannes B. Ortner Award"
- 2010 Bachelor's thesis *Analysis of ceiling panels with isogeometric finite elements*
- 2009 Master's thesis *Development and Implementation of a Rhino Preprocessor for the Integration of CAD and isogeometric analysis*
- 2009 Bachelor's thesis *Geometric description of free-form surfaces*
- 2008-2010 Various student (group) projects with topics from *Computational Mechanics, Isogeometric Analysis* and *Geometric Modeling*

Affiliations

- International Association for Applied Mathematics and Mechanics (GAMM)
- German Association for Computational Mechanics (GACM)

Language skills

- German (native)
- English (excellent)
- Italian (excellent)
- Norwegian (intermediate)
- French (basic)

List of Publications - Josef Kiendl

Papers in peer-reviewed international journals

52. D. Proserpio, **J. Kiendl**; *Penalty coupling of trimmed isogeometric Kirchhoff-Love shell patches*; Journal of Mechanics, accepted (2022)
51. N. Ramos, C. Mittermeier, **J. Kiendl**; *Experimental and numerical investigations on heat transfer in fused filament fabrication 3D-printed specimens*; International Journal of Advanced Manufacturing Technology, 118:1367-1381 (2022)
50. A. del Toro Llorens, **J. Kiendl**; *An isogeometric finite element-boundary element approach for the vibration analysis of submerged thin-walled structures*; Computers and Structures, 256:106636 (2021)
49. L. Coradello, **J. Kiendl**, A. Buffa; *Coupling of non-conforming trimmed isogeometric Kirchhoff-Love shells via a projected super-penalty approach*; Computer Methods in Applied Mechanics and Engineering, 387:114187 (2021)
48. D. Proserpio, M. Ambati, L. De Lorenzis, **J. Kiendl**; *Phase-field simulation of ductile fracture in shell structures*; Computer Methods in Applied Mechanics and Engineering, 385:114019 (2021)
47. A. Özen, D. Auhl, C. Völlmecke, **J. Kiendl**, B. E. Abali; *Optimization of manufacturing parameters and tensile specimen geometry for fused deposition modeling (FDM) 3-D printed PETG*; Materials,14(10):2556 (2021)
46. A. Patton, P. Antolin, **J. Kiendl**, A. Reali; *Efficient equilibrium-based stress recovery for isogeometric laminated curved structures*; Composite Structures, 272:113975 (2021)
45. A. Nitti, **J. Kiendl**, A. Gizzi, A. Reali, M. de Tullio; *A curvilinear isogeometric framework for the electromechanical activation of thin muscular tissues*; Computer Methods in Applied Mechanics and Engineering, 382:113877 (2021)
44. A. Patton, P. Antolin, J.-E. Dufour, **J. Kiendl**, A. Reali; *Accurate equilibrium-based inter-laminar stress recovery for isogeometric laminated composite Kirchhoff plates*; Composite Structures, 256:112976 (2021)
43. H. Do, Y. Y. Tan, N. Ramos, **J. Kiendl**, O. Weeger; *Nonlinear isogeometric multiscale simulation for design and fabrication of functionally graded knitted textiles*; Composites Part B: Engineering, 202:108416 (2020)
42. L. Leonetti, F. S. Liguori, D. Magisano, **J. Kiendl**, A. Reali, G. Garcea; *A robust penalty coupling of non-matching isogeometric Kirchhoff-Love shell patches in large deformations*; Computer Methods in Applied Mechanics and Engineering, 371:113289 (2020)
41. D. Proserpio, M. Ambati, L. De Lorenzis, **J. Kiendl**; *A framework for efficient isogeometric computations of phase-field brittle fracture in multipatch shell structures*; Computer Methods in Applied Mechanics and Engineering, 372:113363 (2020)
40. L. Coradello, D. D'Angella M. Carraturo, **J. Kiendl**, S. Kollmannsberger, E. Rank, A. Reali; *Hierarchically refined isogeometric analysis of trimmed shells*; Computational Mechanics, 66:431-447 (2020)

39. P. Antolin, **J. Kiendl**, M. Pingaro, A. Reali; *A simple and effective method based on strain projections to alleviate locking in isogeometric solid shells*; Computational Mechanics, 65(6):1621-1631 (2020)
38. A. Nitti, **J. Kiendl**, A. Reali, M. de Tullio; *An immersed-boundary/isogeometric method for fluid-structure interaction involving thin shells*; Computer Methods in Applied Mechanics and Engineering, 364:112977 (2020)
37. **J. Kiendl**, C. Gao; *Controlling toughness and strength of FDM 3D-printed PLA components through the raster layout*; Composites Part B: Engineering, 180:107562 (2020)
36. H. Casquero, D. Toshniwal, A. Li, T.J.R. Hughes, **J. Kiendl**, Y. Zhang; *Seamless integration of design and Kirchhoff-Love shell analysis using analysis-suitable unstructured T-splines*; Computer Methods in Applied Mechanics and Engineering, 360:112765 (2020)
35. E. Marino, **J. Kiendl**, L. De Lorenzis; *Isogeometric collocation for implicit dynamics of three-dimensional beams undergoing finite motions*; Computer Methods in Applied Mechanics and Engineering, 356:548-570 (2019)
34. L. Leonetti, D. Magisano, A. Madeo, G. Garcea, **J. Kiendl**, A. Reali; *A simplified Kirchhoff-Love large deformation model for elastic shells and its effective isogeometric formulation*; Computer Methods in Applied Mechanics and Engineering, 354:369-396 (2019)
33. V. Balobanov, **J. Kiendl**, S. Khakalo, J. Niiranen; *Kirchhoff-Love shells within strain gradient elasticity: weak and strong formulations and an H^3 -conforming isogeometric implementation*; Computer Methods in Applied Mechanics and Engineering, 344:837-857 (2019)
32. E. Marino, **J. Kiendl**, L. De Lorenzis; *Explicit isogeometric collocation for the dynamics of three-dimensional beams undergoing finite motions*; Computer Methods in Applied Mechanics and Engineering, 343:530-549 (2019)
31. C. Gao, **J. Kiendl**; *Short review on architected materials with topological interlocking mechanisms*; Material Design & Processing Communications, DOI:10.1002/mdp2.31 (2019)
30. A. Herrema, **J. Kiendl**, M.-C. Hsu; *A framework for isogeometric-analysis-based optimization of wind turbine blade structures*; Wind Energy, 22:153-170 (2019)
29. A. Herrema, E. Johnson, D. Proserpio, M.C.H. Wu, **J. Kiendl**, M.-C. Hsu; *Penalty coupling of non-matching isogeometric Kirchhoff-Love shell patches with application to composite wind turbine blades*; Computer Methods in Applied Mechanics and Engineering, 346:810-840 (2019)
28. J. Niiranen, V. Balobanov, **J. Kiendl**, S. B. Hosseini; *Variational formulations, model comparisons and numerical methods for Euler-Bernoulli micro- and nano-beam models*; Mathematics and Mechanics of Solids, 24:312-335 (2019)
27. M. Ambati, **J. Kiendl**, L. De Lorenzis; *Isogeometric Kirchhoff-Love shell formulation for elasto-plasticity*; Computer Methods in Applied Mechanics and Engineering, 340:320-339 (2018)
26. N.A. Nodargi, **J. Kiendl**, P. Bisegna, F. Caselli, L. De Lorenzis; *An isogeometric analysis formulation for red blood cell electro-deformation modeling*; Computer Methods in Applied Mechanics and Engineering, 338:392-411 (2018)

25. M.C.H. Wu, R. Zakerzadeh, D. Kamensky, **J. Kiendl**, M. Sacks, M.-C. Hsu; *An anisotropic constitutive model for immersogeometric fluid-structure interaction analysis of bioprosthetic heart valves*; Journal of Biomechanics, 74:23-31 (2018)
24. **J. Kiendl**, F. Auricchio, A. Reali; *A displacement-free formulation for the Timoshenko beam problem and a corresponding isogeometric collocation approach*; Meccanica, 53(6):1403-1413 (2018)
23. **J. Kiendl**, E. Marino, L. De Lorenzis; *Isogeometric collocation for the Reissner-Mindlin shell problem*; Computer Methods in Applied Mechanics and Engineering, 325:645-665 (2017)
22. O. Weeger, B. Narayanan, L. De Lorenzis, **J. Kiendl**, M.L. Dunn; *An isogeometric collocation method for frictionless contact of Cosserat rods*; Computer Methods in Applied Mechanics and Engineering, 321:361-382 (2017)
21. L. Heltai, **J. Kiendl**, A. DeSimone, A. Reali; *A natural framework for isogeometric fluid-structure interaction based on BEM-shell coupling*; Computer Methods in Applied Mechanics and Engineering, 316:522-546 (2017)
20. J. Niiranen, **J. Kiendl**, A. Niemi, A. Reali; *Isogeometric analysis for sixth-order boundary value problems of gradient-elastic Kirchhoff plates*; Computer Methods in Applied Mechanics and Engineering, 316:328-348 (2017)
19. H. Casquero, L. Liu, Y. Zhang, A. Reali, **J. Kiendl**, H. Gomez; *Arbitrary-Degree T-splines for Isogeometric Analysis of Fully Nonlinear Kirchhoff-Love Shells*; Computer-Aided Design, 82:140-153 (2017)
18. **J. Kiendl**, M. Ambati, L. De Lorenzis, H. Gomez, A. Reali; *Phase-field description of brittle fracture in plates and shells*; Computer Methods in Applied Mechanics and Engineering, 312:374-394 (2016)
17. F. Auricchio, L. Beirão da Veiga, **J. Kiendl**, C. Lovadina, A. Reali; *Isogeometric collocation mixed methods for rods*; Discrete and Continuous Dynamical Systems - Series S, 9:33-42 (2016)
16. M.-C. Hsu, D. Kamensky, F. Xu, **J. Kiendl**, C. Wang, M.C.H. Wu, J. Mineroff, A. Reali, Y. Bazilevs, M. Sacks; *Dynamic and fluid-structure interaction simulations of bioprosthetic heart valves using parametric design with T-splines and Fung-type material models*; Computational Mechanics, 55:1211-1225 (2015)
15. **J. Kiendl**, M.-C. Hsu, M.C.H. Wu, A. Reali; *Isogeometric Kirchhoff-Love shell formulations for general hyperelastic materials*; Computer Methods in Applied Mechanics and Engineering, 291:280-303 (2015)
14. L. Beirão da Veiga, T.J.R. Hughes, **J. Kiendl**, C. Lovadina, J. Niiranen, A. Reali, H. Speleers; *A locking-free model for Reissner-Mindlin plates: Analysis and isogeometric implementation via NURBS and triangular NURPS*; Mathematical Models and Methods in Applied Sciences, 25:1519-1551 (2015)
13. **J. Kiendl**, F. Auricchio, T.J.R. Hughes, A. Reali; *Single-variable formulations and isogeometric discretizations for shear deformable beams*; Computer Methods in Applied Mechanics and Engineering, 284:988-1004 (2015)

12. J.F. Caseiro, R.A.F. Valente, A. Reali, **J. Kiendl**, F. Auricchio, R.J. Alves de Sousa; *Assumed Natural Strain NURBS-based solid-shell element for the analysis of large deformation elasto-plastic thin-shell structures*; Computer Methods in Applied Mechanics and Engineering, 284:861-880 (2015)
11. **J. Kiendl**, F. Auricchio, L. Beirão da Veiga, C. Lovadina, A. Reali; *Isogeometric collocation methods for the Reissner-Mindlin plate problem*; Computer Methods in Applied Mechanics and Engineering, 284:489-507 (2015)
10. J.F. Caseiro, R.A.F. Valente, A. Reali, **J. Kiendl**, F. Auricchio, R.J. Alves de Sousa; *On the Assumed Natural Strain method to alleviate locking in solid-shell NURBS-based finite elements*; Computational Mechanics, 53:1341-1353 (2014)
9. **J. Kiendl**, R. Schmidt, R. Wüchner, K.-U. Bletzinger; *Isogeometric shape optimization of shells using semi-analytical sensitivity analysis and sensitivity weighting*; Computer Methods in Applied Mechanics and Engineering, 274:148-167 (2014)
8. F. Auricchio, L. Beirão da Veiga, **J. Kiendl**, C. Lovadina, A. Reali; *Locking-free isogeometric collocation methods for spatial Timoshenko rods*; Computer Methods in Applied Mechanics and Engineering, 263:113-126 (2013)
7. S. Shojaee, E. Izadpanah, N. Valizadeh, **J. Kiendl** *Free vibration analysis of thin plates by using a NURBS-based isogeometric approach*; Finite Elements in Analysis and Design; 61:23-34 (2012)
6. Y. Bazilevs, M.-C. Hsu, **J. Kiendl**, D.J. Benson; *A Computational Procedure for Pre-Bending of Wind Turbine Blades*; International Journal for Numerical Methods in Engineering, 89:323-336 (2012)
5. N. Nguyen-Thanh, **J. Kiendl**, H. Nguyen-Xuan, R. Wüchner, K.-U. Bletzinger, Y. Bazilevs, T. Rabczuk, *Rotation free isogeometric thin shell analysis using PHT-splines*; Computer Methods in Applied Mechanics and Engineering, 200(47- 48):3410-3424 (2011)
4. Y. Bazilevs, M.-C. Hsu, **J. Kiendl**, R. Wüchner, K.-U. Bletzinger; *3D simulation of wind turbine rotors at full scale. Part II: Fluid-structure interaction modeling with composite blades*; International Journal for Numerical Methods in Fluids; 65:236-253 (2011)
3. R. Schmidt, **J. Kiendl**, K.-U. Bletzinger, R. Wüchner; *Realization of an integrated structural design process: analysis-suitable geometric modelling and isogeometric analysis*; Computing and Visualization in Science, 13:315-330 (2010)
2. **J. Kiendl**, Y. Bazilevs, M.-C. Hsu, R. Wüchner, K.-U. Bletzinger; *The bending strip method for isogeometric analysis of Kirchhoff-Love shell structures comprised of multiple patches*; Computer Methods in Applied Mechanics and Engineering, 199:2403-2416 (2010)
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Book chapters

1. M. A. Ghaziani, **J. Kiendl**, L. De Lorenzis; *Isogeometric Multiscale Modeling with Galerkin and Collocation Methods*; Virtual Design and Validation (2020)

List of conferences - Josef Kiendl

As presenting author (†† plenary lecture, † semiplenary lecture, ‡ keynote lecture, * invited)

35. **J. Kiendl**, C. Gao; *Impact of the mesostructural layout on strength and toughness of FFF-printed materials*; ESMC 2022: 11th European Solid Mechanics Conference, Galway, Ireland, July 2022
34. **J. Kiendl**†; *Isogeometric Methods in Structural Analysis: Recent Advances and Applications*; 8th ECCOMAS Congress, Oslo, Norway, June 2022
33. **J. Kiendl**†; *Isogeometric Methods in Structural Analysis*; ICCM2021: The 12th International Conference on Computational Methods, Virtual Conference, July 2021
32. **J. Kiendl**††; *Isogeometric Methods in Structural Analysis*; IGA 2019: International Conference on Isogeometric Analysis, Munich, Germany, September 2019
31. **J. Kiendl***, C. Gao; *Impact of the mesostructural layout on strength and toughness of FDM-printed materials*; ESIAM19: First European Conference on Structural Integrity of Additively Manufactured Materials, Trondheim, Norway, September 2019
30. **J. Kiendl***, C. Gao; *Impact of the mesostructural layout on strength and toughness of FDM-printed materials*; ICoNSoM 2019: International Conference on Nonlinear Solid Mechanics, Rome, Italy, June 2019
29. **J. Kiendl***, A. Herrema, E. Johnson, D. Proserpio, M. Wu, M.-C. Hsu; *A new penalty formulation for patch coupling in Kirchhoff-Love shell analysis*; HOFEIM2019: High-Order Finite Element and Isogeometric Methods Workshop, Pavia, Italy, May 2019
28. **J. Kiendl***, D. Proserpio, M. Ambati, L. De Lorenzis; *Isogeometric Phase-Field Description of Brittle Fracture in Plates and Shells*; WCCMXIII: 13th World Congress in Computational Mechanics, New York, USA, July 2018
27. **J. Kiendl***, E. Marino, L. de Lorenzis; *Isogeometric collocation for the Reissner-Mindlin shell problem*; ECCM 6: 6th European Conference on Computational Mechanics, Glasgow, Scotland, June 2018
26. **J. Kiendl**‡; *Isogeometric Methods in Structural Mechanics*; IGAA2018: 3rd Conference on Isogeometric Analysis and Applications, Delft, Netherlands, April 2018
25. **J. Kiendl**, D. Proserpio, M. Ambati, L. de Lorenzis; *Phase-field description of brittle fracture in plates and shells*; 89th Annual Meeting of GAMM 2018, Munich, Germany, March 2018
24. **J. Kiendl***, E. Marino, L. de Lorenzis; *Isogeometric collocation for the Reissner-Mindlin shell problem*; IGA 2017: International Conference on Isogeometric Analysis, Pavia, Italy, September 2017
23. **J. Kiendl***, M. Ambati, L. de Lorenzis, H. Gomez, A. Reali; *Isogeometric phase-field modeling of fracture in thin plates and shells*; USACM Thematic Conference on Isogeometric Analysis and Meshfree Methods, La Jolla, USA, October 2016

22. **J. Kiendl**, M. Ambati, L. de Lorenzis, A. Reali, H. Gomez; *Isogeometric phase-field modeling of brittle fracture in thin shells*; Joint Annual Meeting of DMV and GAMM 2016, Braunschweig, Germany, March 2016
21. **J. Kiendl***, M. Ambati, L. de Lorenzis; *Isogeometric phase-field modeling of brittle fracture in shell structures*; 3rd GAMM Workshop on Phase Field Modeling, Braunschweig, Germany, February 2016
20. **J. Kiendl[‡]**, L. Heltai, A. Reali, A. DeSimone; *A natural framework for isogeometric fluid-structure-interaction: coupling BEM and Shell models*; USNCCM13: 13th US Congress on Computational Mechanics, San Diego, USA, July 2015
19. **J. Kiendl[‡]**, M.-C. Hsu, A. Reali; *Isogeometric Thin Shell Analysis with Hyperelastic Materials and Application to Aortic Heart Valve Simulations*; ESMC 2015: 9th European Solid Mechanics Conference, Madrid, Spain, July 2015
18. **J. Kiendl***, M.-C. Hsu, A. Reali; *Isogeometric Kirchhoff-Love shell formulations for general hyperelastic materials*; IGA 2015: 3rd International Conference on Isogeometric Analysis, Trondheim, Norway, June 2015
17. **J. Kiendl[‡]**, F. Auricchio, T. Hughes, A. Reali; *Isogeometric one-parameter formulations for shear deformable structures*; WCCM XI: 11th World Congress on Computational Mechanics, Barcelona, Spain, July 2014
16. **J. Kiendl***, F. Auricchio, T. Hughes, A. Reali; *One-parameter formulations for shear deformable structures*; HOFEIM 2014: Higher Order Finite Element and Isogeometric Methods, Frauenchiemsee, Germany, July 2014
15. **J. Kiendl**, F. Auricchio, A. Reali; *Single-variable formulations for shear-deformable structures*; 12th Workshop on theoretical and practical structural engineering, Munich, February 2014
14. **J. Kiendl***, F. Auricchio, T. Hughes, A. Reali; *A one-parameter isogeometric formulation for Timoshenko beams*; IGA 2014: Isogeometric Analysis: Integrating Design and Analysis, Austin, USA, January 2014
13. **J. Kiendl***, R. Wüchner, K.-U. Bletzinger, Y. Bazilevs; *Isogeometric shell analysis: applications in structural analysis, shape optimization, CAD-integration, and FSI*; AIMETA 2013: XXI Congress of the Italian Association of Theoretical and Applied Mechanics, Turin, Italy, September 2013
12. **J. Kiendl**, F. Auricchio, L. Beirão da Veiga, C. Lovadina, A. Reali; *Innovative isogeometric formulations for shear deformable beams and plates*; YIC 2013: ECCOMAS Young Investigators Conference, Bordeaux, France, September 2013
11. **J. Kiendl***, F. Auricchio, L. Beirão da Veiga, C. Lovadina, A. Reali; *Isogeometric collocation methods for thin structures*; SEECCM 2013: South-East European Conference on Computational Mechanics, Kos, Greece, June 2013
10. **J. Kiendl**, F. Auricchio, L. Beirão da Veiga, C. Lovadina, A. Reali; *Isogeometric collocation methods for thin structures*; GAMM 2013: 84th Annual Meeting of the International Association of Applied Mathematics and Mechanics, Novi Sad, Serbia, March 2013

9. **J. Kiendl***, F. Auricchio, L. Beirão da Veiga, C. Lovadina, A. Reali; *Isogeometric collocation methods for thin structures: spatial Timoshenko beams and Reissner-Mindlin plates*; ACM 2013: Advances in Computational Mechanics, San Diego, USA, February 2013
8. **J. Kiendl***, F. Auricchio, L. Beirão da Veiga, C. Lovadina, A. Reali; *Isogeometric collocation methods for spatial Timoshenko beams*; ECCOMAS 2012: 6th European Congress on Computational Methods in Applied Sciences and Engineering, Vienna, Austria, September 2012
7. **J. Kiendl**, R. Wüchner, K.-U. Bletzinger, Y. Bazilevs; *Isogeometric Kirchhoff-Love shell: applications in structural analysis, shape optimization, CAD-integration, FSI*; WCCM 2012: 10th World Congress on Computational Mechanics, São Paulo, Brasil, July 2012
6. **J. Kiendl**, R. Wüchner, K.-U. Bletzinger, A. Reali; *Isogeometric Shell Analysis and Shape Optimization*; YIC 2012: ECCOMAS Young Investigators Conference, Aveiro, Portugal, April 2012
5. **J. Kiendl***, K.-U. Bletzinger, R. Wüchner; *Isogeometric shape optimization of thin-walled structures*; Isogeometric Analysis 2011: Integrating Design and Analysis, Austin, USA, January 2011
4. **J. Kiendl***, K.-U. Bletzinger, R. Wüchner; *Isogeometric shape optimization of thin-walled structures*; WCCM 2010: 9th World Congress on Computational Mechanics and 4th Asian Pacific Congress on Computational Mechanics, Sydney, Australia, July 2010
3. **J. Kiendl***, K.-U. Bletzinger, R. Wüchner; *Isogeometric shape optimization of surface coupled structures*; ECCM 2010: 4th European Conference on Computational Mechanics, Paris, France, May 2010
2. **J. Kiendl**, K.-U. Bletzinger, R. Wüchner; *Isogeometric Shell Analysis with Kirchhoff-Love Elements*; Forschungskolloquium Baustatik-Baupraxis 2009, Falkenstein Harz, Germany, September 2009
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As coauthor

47. A. Patton, P. Antolin, J.-E. Dufour, **J. Kiendl**, A. Reali; *An accurate equilibrium-based approach to recover stresses in elastic solid composite structures via isogeometric analysis*, YIC 2021: VI ECCOMAS Young Investigators Conference, Valencia, Spain, July 2021
46. M. Torre, S. Morganti, A. Nitti, M. D. de Tullio, **J. Kiendl**, L. F. Pavarino, F. S. Pasqualini, A. Reali; *Isogeometric simulation of cardiac muscle electromechanics*, YIC 2021: VI ECCOMAS Young Investigators Conference, Valencia, Spain, July 2021
45. A. Patton, P. Antolin, J.-E. Dufour, **J. Kiendl**, A. Reali; *An accurate equilibrium-based approach to recover stresses in elastic composite structures via isogeometric analysis*, Joint 14th World Congress in Computational Mechanics and ECCOMAS Congress, Paris, France, July 2020
44. D. Magisano, F. Liguori, L. Leonetti, A. Madeo, G. Garcea, **J. Kiendl**, A. Reali; *Robust and Efficient Large Deformation Analysis of Kirchhoff-love Shells: Locking, Patch Coupling and Iterative Solution*, Joint 14th World Congress in Computational Mechanics and ECCOMAS Congress, Paris, France, July 2020
43. A. Patton, J.-E. Dufour, P. Antolin, **J. Kiendl**, A. Reali; *A stress recovery approach for accurate elastic analysis of laminated composites via isogeometric collocation*; IGA2019: International Conference on Isogeometric Analysis, Munich, Germany, September 2019
42. E. Marino, **J. Kiendl**, L. De Lorenzis; *Isogeometric collocation for implicit dynamics of three-dimensional geometrically exact beams*; IGA2019: International Conference on Isogeometric Analysis, Munich, Germany, September 2019
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34. H. Do, O. Weeger, Y. Quek, N. Ramos, **J. Kiendl**, K. Tracey; *Numerical simulation of mechanical behavior of knitted textiles at meso- and macro- scales*; ICCM2019: 10th International Conference on Computational Methods, Singapore, July 2019
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32. C. Gao, **J. Kiendl**; *Design of strong and tough architected layered materials via initial periodicity and porosity of material*; ICoNSoM 2019: International Conference on Nonlinear Solid Mechanics, Rome, Italy, June 2019
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24. V. Balobanov, **J. Kiendl**, S. Khakalo, J. Niiranen; *Shells in strain gradient elasticity: theory, isogeometric implementation and applications*; ECCM 6: 6th European Conference on Computational Mechanics, Glasgow, Scotland, June 2018

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22. D. Proserpio, **J. Kiendl**, M. Ambati, L. De Lorenzis, K. A. Johannessen, T. Kvamsdal; *Isogeometric simulation of brittle fracture in shells using a phase-field approach and LR-NURBS-based adaptive refinement*; ECCM 6: 6th European Conference on Computational Mechanics, Glasgow, Scotland, June 2018
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14. M. Ambati, **J. Kiendl**, L. De Lorenzis; *Isogeometric phase-field modeling of brittle and ductile fracture in shell structures*; NUMISHEET 2016: The 10th International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes, Bristol, UK, September 2016
13. H. Casquero, **J. Kiendl**, A. Reali, Y. Zhang, H. Gomez; *Analysis-suitable T-splines of arbitrary degree: From isogeometric collocation to fully nonlinear Kirchhoff-Love shells*; ECMI 2016: The 19th European Conference on Mathematics for Industry, Santiago de Compostela, Spain, June 2016

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11. J. Niiranen, S. Khakalo, V. Balobanov, A. H. Niemi, **J. Kiendl**, B. Hosseini, A. Reali; *Isogeometric Galerkin methods for gradient-elastic bars, beams, membranes and plates*; ECCOMAS 2016: VII European Congress on Computational Methods in Applied Sciences and Engineering, Crete Island, Greece, June 2016
10. P. Antolin, A. Buffa, **J. Kiendl**, M. Pingaro, A. Reali, G. Sangalli; *An isogeometric solid shell element for large strain problems*; ECCOMAS 2016: VII European Congress on Computational Methods in Applied Sciences and Engineering, Crete Island, Greece, June 2016
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5. J.F. Caseiro, R.A.F. Valente, A. Reali, **J. Kiendl**, F. Auricchio, R.J. Alves de Sousa; *Extending the Assumed Natural Strain Method to Isogeometric Analysis: a New NURBS-Based Solid-Shell Element*; IGA 2014: Isogeometric Analysis: Integrating Design and Analysis, Austin, USA, January 2014
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3. M.-C. Hsu, Y. Bazilevs, I. Akkerman, K. Takizawa, T.E. Tezduyar, **J. Kiendl**, R. Wüchner, K.-U. Bletzinger; *Isogeometric fluid-structure interaction analysis of wind turbines in 3D at full scale*; Isogeometric Analysis 2011: Integrating Design and Analysis, Austin, USA, January 2011
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