



## Ivana Stiperski

Affiliate, Mechanical Engineering - Flow Physics and Computation

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### Bio

#### BIO

Ivana is a professor of Atmospheric Turbulence at University of Innsbruck, Austria. She got her PhD from the University of Zagreb, Croatia. Her research focuses on the effects of terrain complexity on the atmospheric flows at different scales. On the turbulence scale she and her team work on formulating a generalized theory of surface-layer turbulence based on anisotropy through her ERC Consolidator Grant "Unicorn". This new framework allows the classic turbulence theories to be extended to conditions outside of their range of applicability. On the local and mesoscale she studies thermally driven flows (katabatic flows over glaciers and non-glaciarized environments), as well as dynamically driven flows (bora and foehn winds and gravity waves). Her main research tool are turbulence field observations collected over a wide range of very complex settings (e.g., mountains, glaciers, ice-cliffs, caves). She also participated and organized a number of field experiments (T-Rex, i-Box, SEECAP, HEFEX, HEFEX II, TEAMx). Her teaching includes introductory and advanced atmospheric sciences courses, especially boundary layer meteorology courses on Bachelor and Master level.