

## Dr. Gunther Uhlmann



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Gunther Uhlmann received the Licenciatura in Mathematics degree from the Faculty of Sciences of the University of Chile in 1973 and the PhD in 1976 from MIT under the direction of Victor Guillemin. After postdocs at Harvard, MIT and the Courant Institute, he became Assistant Professor at MIT in 1980. In 1984 he moved to the University of Washington where he currently holds the Robert R. Phelps and Elaine F. Phelps Endowed Professorship. Uhlmann has received several honors including membership in the American Academy of Arts and Sciences. He is also a foreign member of the Finnish Academy of Science and a Corresponding member of the Chilean Academy of Sciences.. In 2011 he was awarded the Bocher Memorial Prize from the AMS and the Kleinman Prize from SIAM. In 2017 he received the Lefschetz medal from the Mathematical Council of the Americas. In 2021 he was awarded the Birkhoff Prize by the AMS and SIAM. He was named Doctor Honoris Causa of the University of Helsinki in 2022.

Title: Inverse Problem: Seeing the Unseen

Abstract: In inverse problems one attempts to find the causes of an observed effect. They arise in most areas of science and technology. In many cases the physical situation is modelled by partial differential equations. We describe some recent results on inverse problems for nonlinear equations.