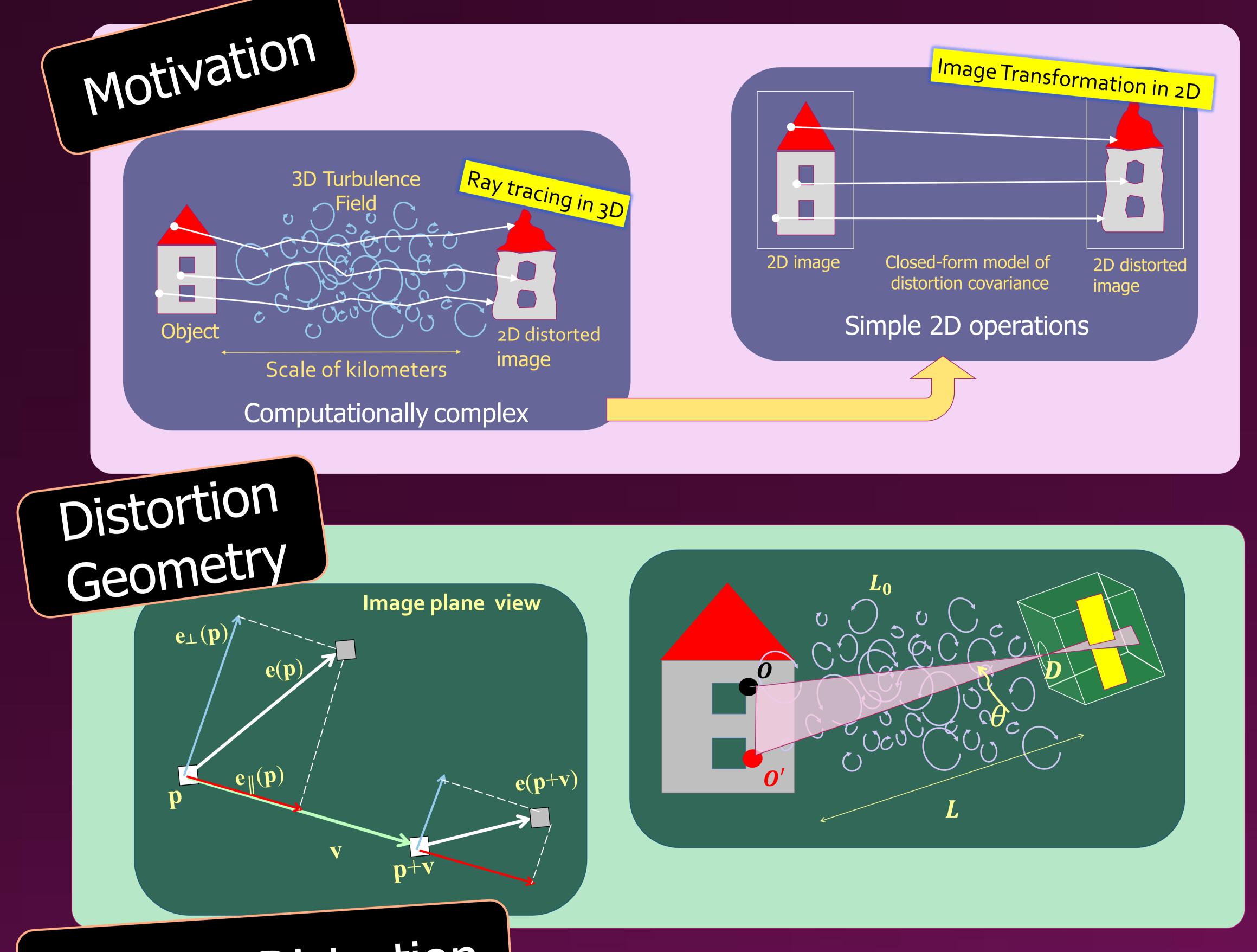
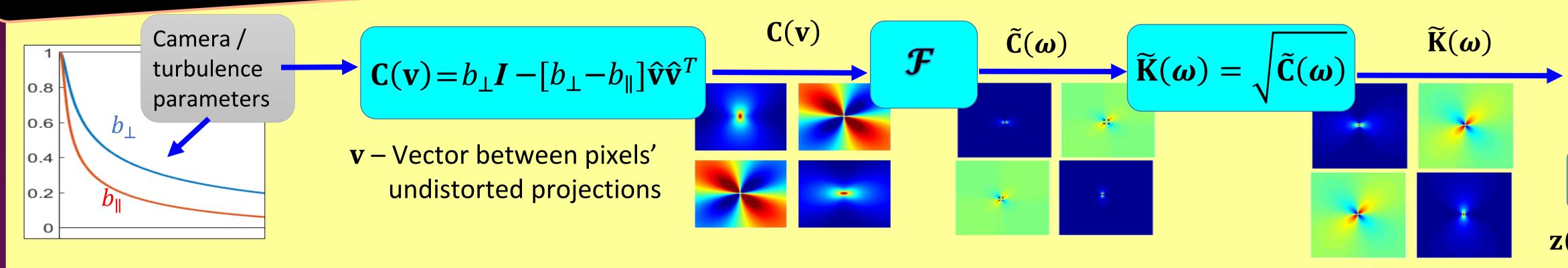




Armin Schwartzman Marina Alterman



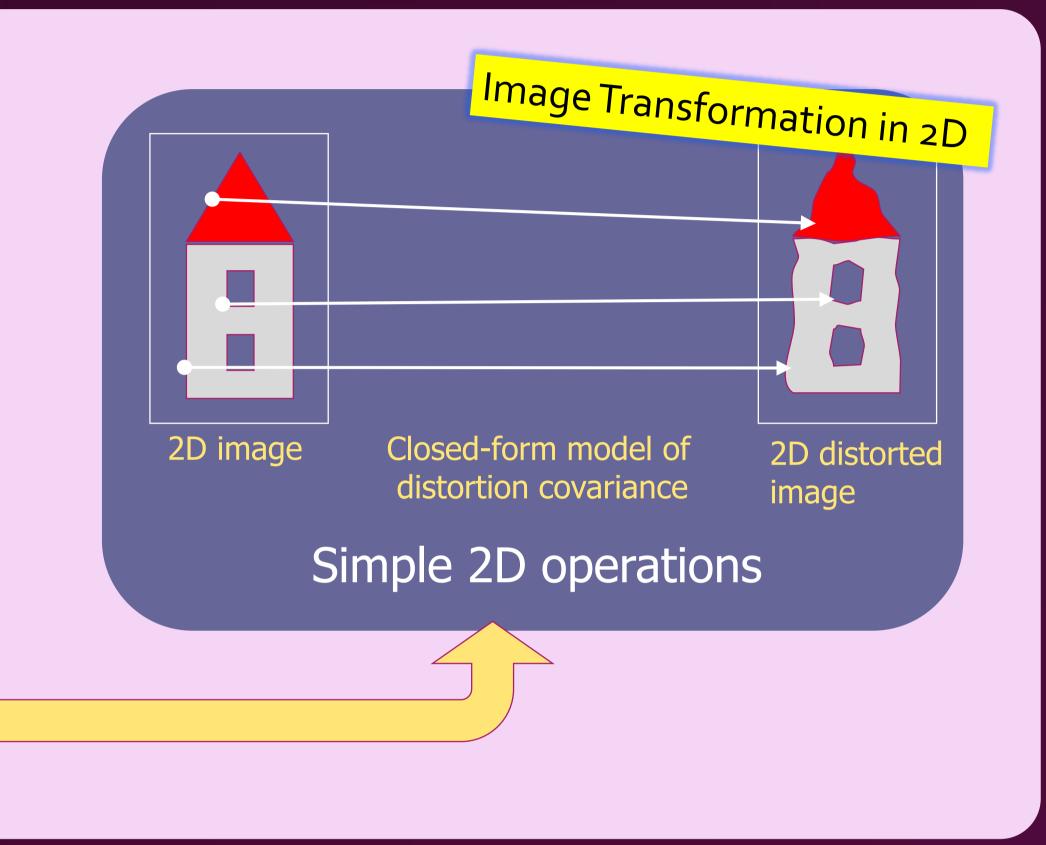
Creating Distortion



 b_{\parallel}, b_{\perp} - AA correlation's parallel and perpendicular component

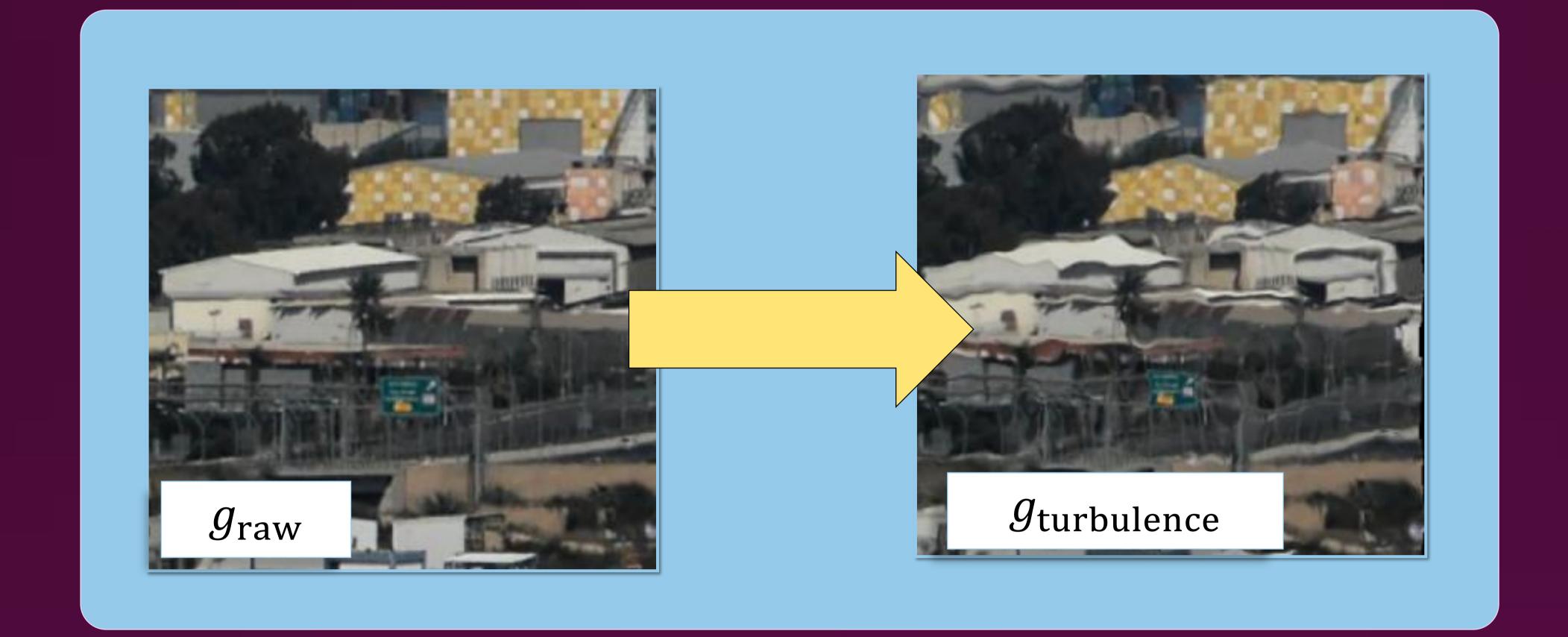
C(v) - Autocorrelation of field e

Turbulence - Induced 2D Correlated Image Distortion

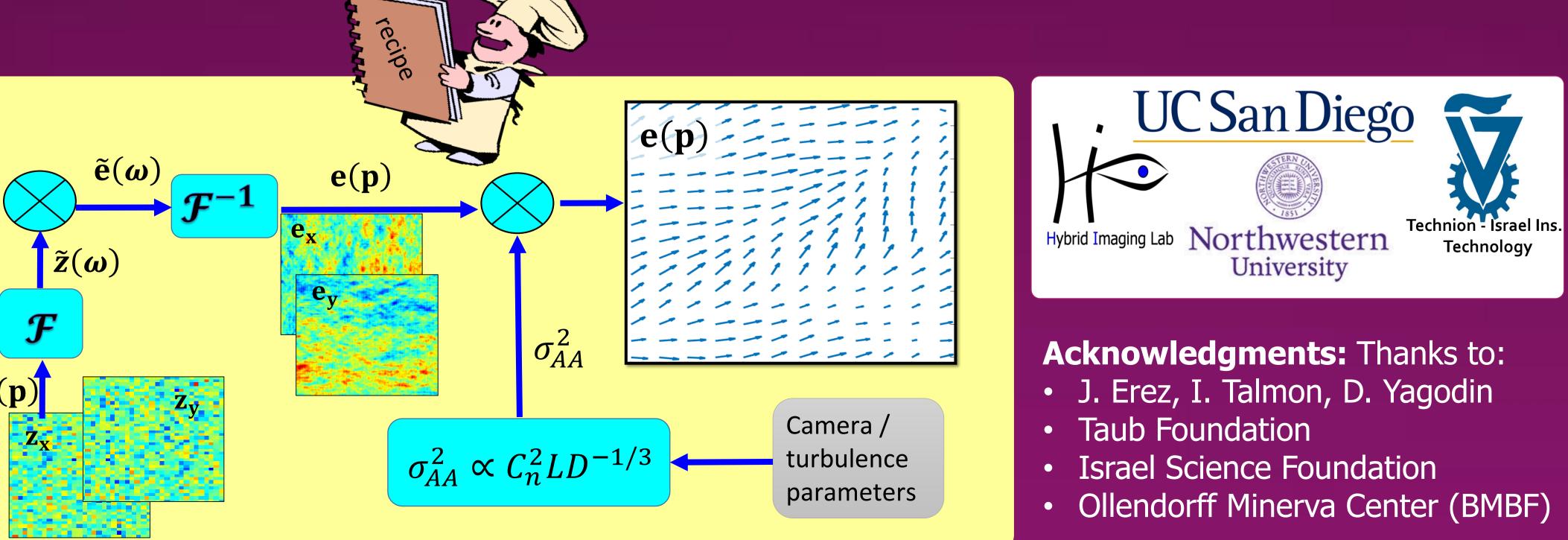


z – White noise vector field

Rotem Zamir



- **Render image distortions consistent with the theory** \bullet
- Create 2D random correlated distortion vector fields
- The correlations depend on the distortion directions relative to the orientation of all object-pairs
- **By-pass 3D numerical calculations and ray-tracing**
- Using correlation functions and Fourier transforms





Yoav Y. Schechner