Stanford

AJ Villaruel

Ph.D. Student in Civil and Environmental Engineering, admitted Summer 2026

Bio

BIO

AJ's current research focuses on the hydrodynamics of large roughness elements in the surf zone. Specifically, he is interested in the cross/along-shore variability in energy dissipation in the presence of these elements, the associated turbulence and wake-dynamics, and the resulting implications for nearshore sediment transport and coastal morphology, using computational fluid dynamics (CFD) and laboratory wave-basin techniques.

EDUCATION AND CERTIFICATIONS

- BS, Cornell University , Biological Engineering, Global Development (2026)