

EDUCATION	<p>University Of Massachusetts, Amherst, (Ph.D. - CS) <i>Jan 2018 - current</i></p> <p>Columbia University, NewYork, (M.S. , CS) <i>Sep 2011 - Dec 2012</i></p> <p>PSG College of Technology, India, (B.E. , IT) <i>Aug 2005 - Jun 2009</i></p>
PUBLICATIONS	<p>Conference</p> <ul style="list-style-type: none"> • BuildingNet: Learning to Label 3D Buildings: Pratheba Selvaraju, Mohamed Nabail, Evangelos Kalogerakis, Siddhartha Chaudhuri. (ICCV Oral -2021) • Developable Approximation of Neural Implicits via Rank Minimization: Pratheba Selvaraju. (Accepted - International conference on 3D Vision (3DV-2024)) . • OFER: Occluded Face Expression Reconstruction and Ranking: Pratheba Selvaraju, Victoria Abrevaya, Timo Bolkart, Faezeh Amzadi, Ilya Zharkov . (Under submission - Conference) <p>Journal</p> <ul style="list-style-type: none"> • A 3D digitisation workflow for architecture-specific annotation of built heritage: Marisia Deligiorgi, Maria I Maslioukova, Melinos Averkiou, Andreas C Andreou, Pratheba Selvaraju, Evangelos Kalogerakis, Gustavo Patow, Yiorgos Chrysanthou, George Artopoulos . (JASREC -2021) <p>Current Projects</p> <ul style="list-style-type: none"> • Supervised Face Ranking for Parametric Conditional Generative Models: Pratheba Selvaraju, Victoria Abrevaya, Timo Bolkart • High detailed 3D animatable face generation from single view images: Pratheba Selvaraju, Timo Bolkart, Victoria Abrevaya • Vectordiffusion of Neural Implicits for Layout Design: Pratheba Selvaraju, Tianyu Ding
RESEARCH INTERNSHIP	<p>Microsoft - Applied Science Group, Redmond, WA <i>Sep 2022 – Dec 2022</i></p> <ul style="list-style-type: none"> • OFER: Occluded Face Expression Reconstruction and Ranking <p>Google, Redmond, WA <i>Jun 2022 - Aug 2022</i></p> <ul style="list-style-type: none"> • Worked on LiDAR building semantic labelling of parts and reconstruction • Conducted experiments on real google street view lidar data to extract window positions to be used for training for part label segmentation • Experiments to reconstruct the open surfaces (buildings) <p>Facebook Reality Labs, Redmond, WA <i>May 2020 - Sep 2020</i></p> <ul style="list-style-type: none"> • Worked on virtual panel placement in synthetic room view in augmented reality setup • Conducted experiments for better placement of the panel with respect to head positions dealing with occlusions and scale of the panel
PROFESSIONAL EXPERIENCE	<p>IMO, USA (Software Engineer) <i>Mar 2017 – Dec 2017</i> Audio quality improvement of the IMO application by suppression of voice interruption and echo.</p> <p>Machine Zone, USA (Software Engineer) <i>Sep 2016 – Jan 2017</i> Art tool development for production of game assets using shader programming and 3D graphics</p> <p>Microsoft, USA (Software Engineer) <i>Apr 2013 – Aug 2016</i> Full stack developer in Skype for business</p> <p>Amazon, USA (Software Development Intern) <i>May 2012 – Aug 2012</i></p> <p>EMC Corporation(RSA), India (Software Engineer) <i>Aug 2009 – July 2011</i></p>
TECHNICAL SKILLS	<p>Python, C++, Pytorch, OpenGL</p> <p>3D Computer Vision, 3D Computer Graphics</p>

PORTFOLIO

CV-Personal Webpage(pratheba.github.io)
LinkedIn([prathebaselvaraju](#))
Github
univGithub ([prathebaselva](#))

REFEREES

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Ilya Zharkov, (Microsoft Research)
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