Ana Caraiani*(caraiani.ana@gmail.com), 20 Madison St, Princeton, NJ 08542, and Matthew Emerton, Toby Gee, David Geraghty, Vytautas Paskunas and Sug Woo Shin. Local and global aspects of p-adic Langlands for $GL_2(Q_p)$.

I will discuss joint work with Emerton, Gee, Geraghty, Paskunas and Shin, which gives a new, short proof (in almost all cases) of the fact that the $p$-adic local Langlands correspondence for $GL_2(Q_p)$ satisfies local-global compatibility. The method relies on Taylor-Wiles patching of completed cohomology and the notion of projective envelope. (Received August 11, 2015)