Polynomial degrees for hypersurfaces with non-isolated singularities

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Abstract:
Formulas for the degrees of loci of hypersurfaces with a few (not many!) isolated singularities have been known from almost the beginning of times. I will concentrate on two main examples:
- the degree of the locus of Whitney's umbrella cubics (old, joint with Daniel Coray) and
- ditto for the Steiner roman quartics, fresh from the oven, joint with Adriana Rodrigues Silva.