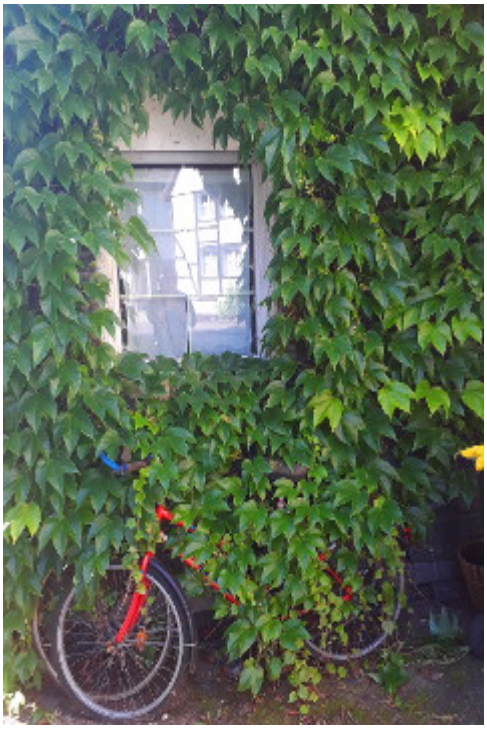Ramschware et al