

SUPPLEMENTAL APPENDIX 1. PCA variable loadings onto the principal component axes. Variables and loadings with a score greater than 0.50 (absolute value) indicated in bold. Variables (Factor 1, Factor 2, Factor 3).—**1** (-0.149601, -0.021005, -0.135155); **2** (-**0.879834**, 0.232262, -0.038861); **3** (0.155403, -0.376258, -0.411751); **4** (-0.457499, -0.207714, 0.182792); **5** (-**0.777109**, -0.160167, -0.220698); **6** (-0.419419, -0.135073, 0.222256); **7** (-0.206482, 0.378136, -0.153390); **8** (-0.266235, 0.354766, 0.033593); **9** (-0.486720, -0.419835, 0.038073); **10** (-**0.696645**, 0.207948, -0.453985); **11** (-**0.875506**, 0.192261, -0.153143); **12** (-**0.883751**, 0.183958, -0.169666); **13** (-0.168224, 0.049462, 0.426400); **14** (-**0.625270**, -**0.524849**, -0.065188); **15** (-**0.824097**, -0.148810, -0.094406); **16** (-**0.902817**, 0.144068, 0.108408); **17** (-**0.866993**, 0.247908, -0.066075); **18** (-**0.548358**; 0.025590, 0.281980); **19** (-**0.777962**, -0.004011, 0.250092); **20** (-**0.761081**, -0.014657, -0.067231); **21** (-0.217759, -**0.736325**, -0.054518); **22** (0.443916; -**0.514368**; 0.084326); **23** (-0.247073, -**0.665245**, 0.081543); **24** (-0.465217, -0.073624, 0.421667); **25** (-0.382303, -0.130487, 0.304242); **26** (-0.317717, -**0.714395**, -0.215074); **27** (0.025960, -**0.737011**, -0.254312); **28** (-0.386692, -0.486626, -0.137935); **29** (-0.012786, -**0.618830**, -0.085557); **30** (-0.488947, -**0.528606**, -0.136548); **31** (-0.404483, -**0.562260**, -0.144356); **32** (0.348777, -**0.740106**, 0.071253); **33** (-**0.735603**, -0.033363, 0.039141); **34** (-0.045753, -0.456325, -0.259422); **35** (-0.170256, -0.391278, -0.363012); **36** (-0.188553, -0.089436, -**0.523176**); **37** (-**0.530126**, -0.024211, 0.349432); **38** (-0.188968, -0.057524, -0.383654); **39** (-0.127440, **0.552011**, -0.466075); **40** (-0.232888, 0.381820, 0.082666); **41** (0.179460, -0.201428, 0.499211); **42** (0.034295, -0.052070, 0.256748); **43** (-0.284100, 0.372475, -0.127812); **44** (-**0.572216**, 0.040315, 0.211210); **45** (-0.144491, 0.229124, -0.324333); **46** (0.430137, -0.143812, 0.010111); **47** (-0.173280, -0.134031,

0.080862); **48** (-0.030176, 0.132824, **-0.539228**); **49** (-0.100951, **0.500037**, -0.477553);  
**50** (**-0.776986**, 0.156563, 0.133768); **51** (**0.834753**, -0.232775, -0.173779); **52**  
(**0.834088**, -0.223312, -0.201086); **53** (**-0.634621**, 0.216145, 0.022083).

SUPPLEMENTAL APPENDIX 2. Variable-Variate correlations for the CVA of the unreduced data set. Correlations with a score greater than 0.15 (absolute value) indicated in bold. Variable (Variate 1, Variate 2, Variate 2).—**1** (0.028525, 0.016410, 0.037563); **2** (**0.179743**, -0.050976, 0.064773); **3** (-0.050226, 0.033143, -0.024119); **4** (0.049867, -0.093871, 0.018089); **5** (0.098973, -0.062249, 0.000919); **6** (0.056408, -0.046347, -0.060133); **7** (0.046429, 0.042225, **0.150648**); **8** (0.065926, 0.035198, 0.017936); **9** (0.038051, -0.090081, -0.059156); **10** (0.117201, 0.021760, 0.007689); **11** (**0.167728**, -0.040967, 0.021868); **12** (**0.174168**, -0.034980, 0.017985); **13** (0.019211, -0.063869, 0.001404); **14** (0.051290, -0.094977, -0.093483); **15** (0.113183, -0.073713, -0.043862); **16** (**0.174722**, -0.085512, 0.064405); **17** (**0.168721**, -0.033743, 0.080604); **18** (0.076254, -0.071197, 0.019558); **19** (0.138819, -0.111215, 0.019410); **20** (0.116389, -0.041814, 0.009470); **21** (-0.012547, -0.064126, -0.026252); **22** (0.025798, -0.067839, -0.016846); **23** (-0.020845, -0.071400, -0.051592); **24** (0.072958, -0.093769, 0.023456); **25** (0.038200, -0.064805, -0.009891); **26** (-0.000201, -0.053039, -0.077435); **27** (-0.057202, -0.015794, -0.081643); **28** (0.032792, -0.033412, -0.066084); **29** (-0.027417, -0.040360, -0.114471); **30** (0.048291, -0.056050, -0.102345); **31** (0.031146, -0.050772, **-0.153913**); **32** (-0.144093, -0.097046, -0.109778); **33** (0.113919, -0.054672, -0.042282); **34** (-0.017819, -0.036064, -0.084566); **35** (0.010136, -0.018974, -0.099905); **36** (0.032321, 0.071590, -0.058610); **37** (0.071909, -0.082785, 0.008870); **38** (0.008289, -0.000373, 0.040979); **39** (0.065851, 0.129296, 0.115261); **40** (0.049962, 0.031325, 0.056975); **41** (-0.042304, -0.041330, 0.054058); **42** (-0.019238, -0.022164, 0.006656); **43** (0.063987, 0.045045, 0.093875); **44** (0.129839, -0.080714, -0.001542); **45** (0.030461, 0.031743, 0.009666); **46** (-0.066813, 0.008777, -0.127200); **47** (0.014301, -0.043253, 0.003175); **48**

(0.066770, **0.191401**, **-0.321245**); **49** (0.090658, **0.173003**, 0.030608); **50** (**0.196629**, -  
0.096456, -0.072866); **51** (**-0.336861**, 0.139440, 0.093899); **52**(**-0.429823**, **0.182359**,  
0.113124); **53** (0.117225, -0.035363, -0.042006).