



# HOKKAIDO UNIVERSITY

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| Title            | Faith and publicness in contemporary Japan : from the analysis of JGSS-2000-2003             |
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※JGSS-2003 was not used because of methodological reasons.

## 1. Variables

### ●Dependent Variable

#### *Voluntary Association Membership (VAM)*

< Question >

The question is “Are you a member of the following organizations?”. Seven associations are listed up below this question : “(A)Political associations”, “(B)Trade associations”, “(C)Social service groups”, “(D)Citizens’ movement/consumers’ cooperative groups”, “(E)Religious groups”, “(F)Sports groups and clubs”, “(G)Hobby groups and clubs (choir, photo-taking, hiking, etc.)”. Respondents are required to choose “Yes” or “No” for each associations.

< The way of constructing variable >

I assigned 1 to the respondents who belong to at least one of five voluntary associations and assigned 0 to the respondents who do not belong to any of these voluntary associations: “(A)Political associations”, “(C)Social service groups”, “(D)Citizens’ movement/consumers’ cooperative groups”, “(F)Sports groups and clubs”, “(G)Hobby groups and clubs (choir, photo-taking, hiking, etc.)”. Trade association is excluded because it is not voluntary association. Religious group is also excluded because it is not secular association.

### ●Dependent Variables

< The way of constructing variable >

The question is “Do you follow a religion?” Respondents are required to choose “Yes”(Individual Religion) or “Although not practiced, I have a family religion.” (Household Religion) 、 “No” (Non-Religion)

The name of religion is questioned to the respondents who answered “Yes” or “Although not practiced, I have a family religion.” to the question above mentioned.

< The way of constructing variable >

**Buddhist (Individual)** : composed of “Buddhism”, “Zen-shu(Soto-shu/Rinzai-shu)”, “Tendai-shu”, “Jodo-shu”, “Jodo-shin-shu(Honngann-ji/Montoo-shu/Namu-amidabutsu)”, “Shingon-shu”, “Nichiren-Shu”, “Ji-shu”, “Hokke-kyo/Hokke-shu”.

**Buddhist (Household)** : in the same way as *Buddhist(Individual)*

**Christian** : composed of “Christianity”, “Catholic”, “Protestant”, “Orthodox (Nihon-harisutosu-sei-kyokai)”

**New Religion (other than SGI)** : composed of

“Hommonbutsuryu-shu”, “Oyama-nezunomikoto-shinji-kyokai”, “Jehova’s witness”, “Sekai-kyusei-kyo”, “Toitu-kyokai (Sekai-kirisuto-toitsu-shinrei-kyokai)”, “Rissho-kosei-kai”, “Reiyu-kai”, “Bussho-gonen-kai”, “Kofuku-no-kagaku”, “Sukyo-mahikari/Mahikari”, “Tenri-kyo”, “Shinnyo-en”, “PL-kyodan”, “Reiha-no-hikari”, “Byakkyo”, “Seicho-no-ie”, “Konko-kyo”, “Ontake-kyo”

**SGI**

“Soka-gakkai”

**Other Religions** : composed of “Shinto”, “Inari-daimyojin”, “Buddhism+Shinto(Buddha +Gods)”, “Ancestral Worship”, “Other”

### ●Control Variables

*Age square*

*Age in years*

*Sex* : Female=1、 Male=0

**Educational year** : recoded as follows. Old system: Low elementary(6 years), high elementary(8), junior high/girl's high school(11), vocational/normal high school(14), university/graduate school(17)

New system : Junior high school(9), high school(12), 2-year college/college of technology(14), university(16), graduate school(18)

**Urban** : 13 large cities and Other cities =1, village/town=0.

**Marital Status** : "Married"=1, "not married, divorced, or widowed"=0

**Occupational Status** : *Full time* is composed of , Executive of a company or a corporation, Regular employee with no managerial post temporary worker, Regular employee - Group leader, Foreman, Regular employee - Sub-section Head agency, Regular employee - Section Head, Manager, Regular employee - Department Head, Regular employee - managerial status unknown.

Parttime / self-employed" is composed of Temporary worker, Daily worker, Part-time, Dispatched worker from temporary personnel, Self-employed, Family worker, Doing piecework at home.

Unemployed is composed of those who belong to non of above mentioned occupational status.

.Don't know and No answer are deleted as missing values.

**Year controls** : Year 2000=1, Year 2001=1, Year 2002=0 (Year 2002 is reference category.)

## 2. Tables of Results

Table 1 Descriptive Statistics

|                                            | range    | Mean or % | S.D     | N    |
|--------------------------------------------|----------|-----------|---------|------|
| (Dependent variables)                      |          |           |         |      |
| Voluntary Association Membership(Belong=1) | 0,1      | 31.3%     | —       | 8173 |
| (Independent variables)                    |          |           |         |      |
| Buddhist(Individual)                       | 0,1      | 4.5%      | —       | 8319 |
| Buddhist(Household)                        | 0,1      | 20.5%     | —       | 8319 |
| Christian                                  | 0,1      | .9%       | —       | 8319 |
| New Religion(other than SGI)               | 0,1      | 1.7%      | —       | 8319 |
| SGI                                        | 0,1      | 2.1%      | —       | 8319 |
| Other religions                            | 0,1      | 1.7%      | —       | 8319 |
| None religion(ref)                         | 0,1      | 68.6%     | —       | 8319 |
| (Control variables)                        |          |           |         |      |
| Age square                                 | 400-7921 | 2932.98   | 1719.83 | 8636 |
| Age in years                               | 20-89    | 51.56     | 16.58   | 8636 |
| Sex(Female=1)                              | 0,1      | 54.1%     | —       | 8636 |
| Education in years                         | 6-18     | 11.97     | 2.70    | 8577 |
| Urban                                      | 0,1      | 75.6%     | —       | 8636 |
| Marital status(Married=1)                  | 0,1      | 73.4%     | —       | 8490 |
| Part time/Self employed                    | 0,1      | 25.9%     | —       | 8490 |
| Unemployed                                 | 0,1      | 37.6%     | —       | 8490 |
| Full time(ref)                             | 0,1      | 34.7%     | —       | 8490 |
| Year 2000                                  | 0,1      | 33.5%     | —       | 8636 |
| Year 2001                                  | 0,1      | 32.3%     | —       | 8636 |
| Year 2002(ref)                             | 0,1      | 34.2%     | —       | 8636 |

**Table 2 Cross Table Analysis on VAM**

| Variabels                                          | Category                     | Voluntary Association Membership |        | Voluntary Association Non-Membership |        | Total |        |
|----------------------------------------------------|------------------------------|----------------------------------|--------|--------------------------------------|--------|-------|--------|
| Religious Affiliation<br>$\chi^2=183.013$ df=6 *** | Buddhist(Individual)         | 42.3%                            | (149)  | 57.7%                                | (203)  | 100%  | (352)  |
|                                                    | Buddhist(Household)          | 40.8%                            | (658)  | 59.2%                                | (953)  | 100%  | (1611) |
|                                                    | Christian                    | 61.1%                            | (44)   | 38.9%                                | (28)   | 100%  | (72)   |
|                                                    | New Religion(other than SGI) | 39.4%                            | (54)   | 60.6%                                | (83)   | 100%  | (137)  |
|                                                    | SGI                          | 38.7%                            | (63)   | 61.3%                                | (100)  | 100%  | (163)  |
|                                                    | Other religions              | 37.5%                            | (51)   | 62.5%                                | (85)   | 100%  | (136)  |
|                                                    | None religion                | 26.7%                            | (1449) | 73.3%                                | (3984) | 100%  | (5433) |
| Age<br>$\chi^2=161.606$ df=6 ***                   | 20-29                        | 21.2%                            | (219)  | 78.8%                                | (813)  | 100%  | (1032) |
|                                                    | 30-39                        | 23.4%                            | (279)  | 76.6%                                | (913)  | 100%  | (1192) |
|                                                    | 40-49                        | 31.5%                            | (438)  | 68.5%                                | (952)  | 100%  | (1390) |
|                                                    | 50-59                        | 37.1%                            | (671)  | 62.9%                                | (1138) | 100%  | (1809) |
|                                                    | 60-69                        | 38.7%                            | (577)  | 61.3%                                | (915)  | 100%  | (1492) |
|                                                    | 70-79                        | 32.3%                            | (312)  | 67.7%                                | (654)  | 100%  | (966)  |
|                                                    | 80-89                        | 21.9%                            | (64)   | 78.1%                                | (228)  | 100%  | (292)  |
| Sex<br>$\chi^2=7.562$ df=1 **                      | Male                         | 32.9%                            | (1233) | 67.1%                                | (2520) | 100%  | (3753) |
|                                                    | Female                       | 30.0%                            | (1327) | 70.0%                                | (3093) | 100%  | (4420) |
| Education in years<br>$\chi^2=96.793$ df=2 ***     | 6-9 years                    | 23.3%                            | (463)  | 76.7%                                | (1526) | 100%  | (1989) |
|                                                    | 10-12years                   | 32.0%                            | (1177) | 68.0%                                | (2502) | 100%  | (3679) |
|                                                    | 13-18years                   | 37.0%                            | (907)  | 63.0%                                | (1547) | 100%  | (2454) |
| Urban<br>$\chi^2=.146$ df=1 n.s                    | Town/village                 | 31.7%                            | (628)  | 68.3%                                | (1355) | 100%  | (1983) |
|                                                    | City                         | 31.2%                            | (1932) | 68.8%                                | (4258) | 100%  | (6190) |
| Marital status<br>$\chi^2=40.211$ df=1 ***         | Unmarried                    | 25.9%                            | (563)  | 74.1%                                | (1610) | 100%  | (2173) |
|                                                    | Married                      | 33.3%                            | (1996) | 66.7%                                | (4003) | 100%  | (5999) |
| Occupational status<br>$\chi^2=7.851$ df=2 n.s     | Part time/Self employed      | 31.3%                            | (669)  | 68.7%                                | (1466) | 100%  | (2135) |
|                                                    | Unemployed                   | 30.7%                            | (932)  | 69.3%                                | (2102) | 100%  | (3034) |
|                                                    | Full time                    | 32.0%                            | (919)  | 68.0%                                | (1952) | 100%  | (2871) |
| Research year<br>$\chi^2=14.274$ df=2 **           | Year 2000                    | 29.9%                            | (816)  | 70.1%                                | (1916) | 100%  | (2732) |
|                                                    | Year 2001                    | 29.9%                            | (764)  | 70.1%                                | (1790) | 100%  | (2554) |
|                                                    | Year 2002                    | 33.9%                            | (980)  | 66.1%                                | (1907) | 100%  | (2887) |

Notes :\*\*\*p<.001 \*\*p<.01 \*p<.05

**Table 3 Binary Logistic Regression Analysis on VAM**

|                              | Exp (b)     | S.E  | b      |
|------------------------------|-------------|------|--------|
| Buddhist(Individual)         | 1.824 ***   | .119 | .601   |
| Buddhist(Household)          | 1.681 ***   | .063 | .519   |
| Christian                    | 3.302 ***   | .253 | 1.195  |
| New Religion(other than SGI) | 1.699 **    | .182 | .530   |
| SGI                          | 1.952 ***   | .170 | .669   |
| Other religions              | 1.594 *     | .186 | .466   |
| None religion(ref)           | —           | —    | —      |
| Age square                   | .999 ***    | .000 | -.001  |
| Age in years                 | 1.080 ***   | .011 | .077   |
| Sex(Female=1)                | 1.028       | .056 | .028   |
| Educational years            | 1.165 ***   | .011 | .153   |
| Urban                        | .909        | .060 | -.096  |
| Marital status(Married=1)    | 1.067       | .066 | .065   |
| Part time/Self employed      | .958        | .069 | -.043  |
| Unemployed                   | .872        | .074 | -.137  |
| Full time(ref)               | —           | —    | —      |
| Year 2000                    | .839 **     | .061 | -.175  |
| Year 2001                    | .796 ***    | .063 | -.228  |
| Year 2002(ref)               | —           | —    | —      |
| Intercept                    | .006 ***    | .308 | -5.067 |
| $\chi^2$                     | 489.398 *** |      |        |
| df                           | 16          |      |        |
| -2LL                         | 9109.369    |      |        |
| Cox-Snell R <sup>2</sup>     | .061        |      |        |
| Nagelkerke R <sup>2</sup>    | .086        |      |        |
| N                            | 7727        |      |        |

Notes : \*\*\*p<.001 \*\*p<.01 \*p<.05

**Table 4 Binary Logistic Regression Analyses on Each Type of VAM**

|                              | Political associations |      |        | Social service groups |      |        | Citizens' movement/movement/ consumers' cooperative groups |        | Sports groups and clubs |      |        | Hobby groups and clubs |      |        |
|------------------------------|------------------------|------|--------|-----------------------|------|--------|------------------------------------------------------------|--------|-------------------------|------|--------|------------------------|------|--------|
|                              | Exp (b)                | S.E  | b      | Exp (b)               | S.E  | b      | Exp (b)                                                    | S.E    | Exp (b)                 | S.E  | b      | Exp (b)                | S.E  | b      |
| Buddhist(Individual)         | 4.233 ***              | .196 | 1.443  | 2.060 ***             | .167 | .723   | .294                                                       | .242   | 1.475 **                | .145 | .389   | 1.497 **               | .145 | .403   |
| Buddhist(Household)          | 2.341 ***              | .137 | .851   | 1.572 ***             | .099 | .452   | .155                                                       | .426   | 1.510 ***               | .075 | .412   | 1.578 ***              | .078 | .456   |
| Christian                    | 4.600 ***              | .399 | 1.526  | 3.043 ***             | .298 | 1.113  | .603                                                       | .347   | .956                    | .323 | -.045  | 3.059 ***              | .262 | 1.118  |
| New Religion(other than SGI) | 5.640 ***              | .282 | 1.730  | 2.428 ***             | .248 | .887   | .430                                                       | .498   | 1.094                   | .234 | .090   | 1.103                  | .243 | .098   |
| SGI                          | 12.857 ***             | .223 | 2.554  | 2.334 **              | .250 | .848   | .517                                                       | .053   | .943                    | .239 | -.059  | 1.223                  | .232 | .202   |
| Other religions              | 4.592 ***              | .289 | 1.524  | 2.699 ***             | .237 | .993   | .432                                                       | .417   | .977                    | .253 | -.023  | .757                   | .275 | -.279  |
| None religion(ref)           | —                      | —    | —      | —                     | —    | —      | —                                                          | —      | —                       | —    | —      | —                      | —    | —      |
| Age square                   | .999 ***               | .000 | -.001  | .999 ***              | .000 | -.001  | .000                                                       | -.001  | 1.000 **                | .000 | .000   | .999 ***               | .000 | -.001  |
| Age in years                 | 1.188 ***              | .033 | .172   | 1.141 ***             | .021 | .132   | .037                                                       | .133   | 1.046 **                | .013 | .045   | 1.158 ***              | .016 | .147   |
| Sex(Female=1)                | .592 ***               | .126 | -.524  | 1.218 *               | .093 | .197   | .150                                                       | .083   | .795 ***                | .067 | -.229  | 1.759 ***              | .076 | .564   |
| Education in years           | 1.055 *                | .023 | .054   | 1.169 ***             | .018 | .156   | .029                                                       | .078   | 1.124 ***               | .014 | .117   | 1.180 ***              | .015 | .166   |
| Urban                        | .656 **                | .123 | -.421  | .727 **               | .094 | -.318  | .154                                                       | -.126  | .890 ***                | .072 | -.117  | 1.189 *                | .082 | .173   |
| Marital status(Married=1)    | 1.541 *                | .170 | .432   | 1.250                 | .115 | .223   | .205                                                       | .548   | .998                    | .080 | -.002  | .877                   | .086 | -.131  |
| Part time/Self employed      | .982                   | .151 | -.018  | 1.099                 | .117 | .095   | .199                                                       | .264   | .831 *                  | .083 | -.186  | 1.065                  | .096 | .063   |
| Unemployed                   | .616 *                 | .171 | -.485  | 1.133                 | .122 | .124   | .205                                                       | .311   | .868                    | .088 | -.141  | 1.159                  | .097 | .147   |
| Full time(ref)               | —                      | —    | —      | —                     | —    | —      | —                                                          | —      | —                       | —    | —      | —                      | —    | —      |
| Year 2000                    | .680 **                | .137 | -.386  | .967                  | .101 | -.034  | .158                                                       | -.127  | .830 *                  | .073 | -.187  | .807 **                | .080 | -.214  |
| Year 2001                    | .745 *                 | .136 | -.294  | .930                  | .102 | -.072  | .170                                                       | -.368  | .737 ***                | .076 | -.305  | .772 **                | .082 | -.259  |
| Year 2002(ref)               | —                      | —    | —      | —                     | —    | —      | —                                                          | —      | —                       | —    | —      | —                      | —    | —      |
| Intercept                    | .000 ***               | .975 | -9.335 | .000 ***              | .604 | -8.739 | 1.075                                                      | -9.356 | .022 ***                | .360 | -3.821 | .000 ***               | .479 | -8.983 |
| $\chi^2$                     | 371.418 ***            |      |        | 285.093 ***           |      |        |                                                            |        | 222.374 ***             |      |        | 519.841 ***            |      |        |
| df                           | 16                     |      |        | 16                    |      |        |                                                            |        | 16                      |      |        | 16                     |      |        |
| -2LL                         | 2532.001               |      |        | 4268.249              |      |        |                                                            |        | 6968.574                |      |        | 5952.700               |      |        |
| Cox-Snell R <sup>2</sup>     | .046                   |      |        | .035                  |      |        |                                                            |        | .027                    |      |        | .064                   |      |        |
| Nagelkerke R <sup>2</sup>    | .151                   |      |        | .081                  |      |        |                                                            |        | .046                    |      |        | .114                   |      |        |
| N                            | 8058                   |      |        | 8033                  |      |        |                                                            |        | 8046                    |      |        | 7803                   |      |        |

Notes : \*\*\*p<.001 \*\*p<.01 \*p<.05

**Table 5 Binary Logistic Regression Analyses on Each Type of VAM (Sample=Buddhist)**

|                                    | Model 1     |      |        | Model 2    |      |        | Model 3  |       |        |
|------------------------------------|-------------|------|--------|------------|------|--------|----------|-------|--------|
|                                    | Exp (b)     | S.E  | b      | Exp (b)    | S.E  | b      | Exp (b)  | S.E   | b      |
| Religious groups(Belong=1)         | 1.470 *     | .191 | .385   | 1.762 +    | .305 | .566   | 1.490    | .256  | .398   |
| Devotion                           | .951        | .099 | -.050  | .935       | .123 | -.067  | .982     | .173  | -.018  |
| Individual/Household(Individual=1) | 1.033       | .145 | .032   | —          | —    | —      | —        | —     | —      |
| Age square                         | .999 ***    | .000 | -.001  | .999 ***   | .000 | -.001  | .999     | .000  | -.001  |
| Age in years                       | 1.139 ***   | .024 | .130   | 1.155 ***  | .027 | .144   | 1.073    | .055  | .071   |
| Sex(Female=1)                      | 1.063       | .106 | .061   | 1.221 +    | .119 | .199   | .565 *   | .253  | -.571  |
| Education in years                 | 1.143 ***   | .021 | .134   | 1.142 ***  | .024 | .133   | 1.144 ** | .046  | .135   |
| Urban                              | .962        | .108 | -.039  | .911       | .121 | -.093  | 1.107    | .248  | .102   |
| Marital status(Married=1)          | 1.020       | .128 | .020   | 1.162      | .144 | .150   | .616     | .298  | -.484  |
| Part time/Self employed            | 1.185       | .139 | .169   | 1.213      | .153 | .193   | .855     | .358  | -.157  |
| Unemployed                         | 1.013       | .144 | .013   | .982       | .158 | -.018  | 1.057    | .363  | .056   |
| Full time(ref)                     | —           | —    | —      | —          | —    | —      | —        | —     | —      |
| Year 2000                          | .739 *      | .118 | -.302  | .684 **    | .131 | -.380  | .959     | .281  | -.042  |
| Year 2001                          | .758 *      | .120 | -.278  | .751 *     | .133 | -.286  | .700     | .290  | -.356  |
| Year 2002(ref)                     | —           | —    | —      | —          | —    | —      | —        | —     | —      |
| Intercept                          | .004 ***    | .716 | -5.621 | .002 ***   | .811 | -6.068 | .037 +   | 1.679 | -3.285 |
| $\chi^2$                           | 102.151 *** |      |        | 96.253 *** |      |        | 25.321 * |       |        |
| df                                 | 13          |      |        | 12         |      |        | 12       |       |        |
| -2LL                               | 2460.730    |      |        | 2007.953   |      |        | 433.006  |       |        |
| Cox-Snell R <sup>2</sup>           | .053        |      |        | .060       |      |        | .073     |       |        |
| Nagelkerke R <sup>2</sup>          | .071        |      |        | .081       |      |        | .098     |       |        |
| N                                  | 1892        |      |        | 1556       |      |        | 336      |       |        |

Notes:\*\*\*p<.001 \*\*p<.01 \*p<.05 +p<.10

Model1 includes both Buddhist(Individual) and Buddhist(Household).

Model2 only includes Buddhist(Household).

Model3 only includes Buddhist(Individual)

In Model 2 and Model 3 "Individual/Household" is not used because Model 2 only includes Buddhist(Household) and Model3 only includes Buddhist(Individual).

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