The effects of credit rationing on reenrollment rates at the University of Cape Town (UCT)

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Motivation

- · Full cost of university study is high and has increased sharply.
- Limited access to credit market among learners from poor socioeconomic backgrounds.
- National Student Financial Aid Scheme (NSFAS) resources are limited and the NSFAS cap has not kept pace with fees.
 - 31% of eligible NSFAS applicants did not receive funds in 2015 (Performance and Expenditure Review)
 NSFAS cap in 2014 was R67 200, average traditional uni fees >R80 000
- Student dropout rates are high, especially among students on financial aid.
- Debt burden of not qualifying large.
- Therefore targeting of funds to those who will graduate is an important consideration.

A change in the policy for renewed funding at UCT in 2015

2014 Undergraduate Students

Students currently receiving financial assistance are **no longer required to reapply for financial assistance**. In considering the renewal of financial assistance Student Financial Aid will apply the following criteria;

Students **must have met academic eligibility which is set at a minimum pass** of 50% of registered courses including any winter and/or summer term courses in the academic year

Students that are academically excluded are automatically ineligible for funding renewal

Students must not have exceeded years of study which is the minimum duration of the programme plus 2 years $(N\!+\!2)$

Research questions

- What is the impact of losing financial aid due to poor academic performance on reenrollment at the University of Cape Town?
- Are there difference for those students funded through the National Student Financial Aid Scheme (NSFAS)?

Relevance

- Taps into discussions:
 - Public finance
 - Targeting of resources
 - Educational attainment
 - Student debt
- Findings to informs the discussion about how best to allocate scare NSFAS resources

UCT institutional data

- Yearly individual level data
- 2010 to 2014 entry cohorts in all programs
- Year-on-year information on:

 enrolment, academic standing, number of courses taken and number of courses completed.
- Our key variable of interest is re-enrolment.
- Analysis is restricted to respondents who have – completed at least first year and enrol in calendar years 2011 to 2015 – In academic years 2-4 only
- Financial aid includes students on NSFAS and GAP funding

Percentage and number of students who fail 50% at UCT

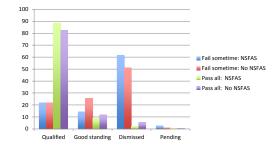
| | NS | FAS | No NSFAS | | |
|------|-----|-----|----------|-----|--|
| | % | # | % | # | |
| 2011 | 14% | 160 | 8% | 427 | |
| 2012 | 14% | 250 | 7% | 599 | |
| 2013 | 15% | 255 | 7% | 677 | |
| 2014 | 12% | 264 | 6% | 674 | |
| 2015 | 13% | 204 | 6% | 507 | |

 About 14% of students funded via NSFAS and 7% of student not funded by NSFAS fail 50% of their courses.

 Primarily in the first 2 years - drops to 5% in year 3 and 1% in year 4 (2.5% and 0.5% for non NSFAS)

- Good academic standing ≠ passing 50%
 - 61% of students who fail 50% of their courses are in good academic standing

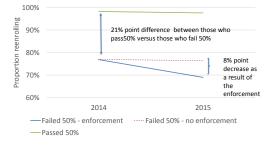
Academic Standing of those who pass 50% all the way compared to those who fail at least once – UCT 2009 cohort by end of 2014



Empirical Strategy

- Differences-in-differences and difference-in-difference-in-differences strategy
 - Pre-post the rule enforcement
 - Financial aid status
 - Academic trajectories
 - School characteristics, entrance characteristics, individual characteristics
 - Conditionally random decrease in financial aid access in 2015
- Identification Assumptions:
 - Enrolment trends would have been the same, conditional on covariates, if the policy rule had not been enforced.
 - The enforcement of the rule did not change the composition of the group passing 50% versus failing 50%

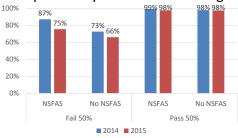
| Proportion re-enrolling by whether | | | | | | | |
|------------------------------------|--|--|--|--|--|--|--|
| passed 50% of courses | | | | | | | |



| | Dependent Variable: Re-enrolment | | | | | |
|------------------------------------|----------------------------------|-----------|-----------|--|--|--|
| Failed 50% | -0.215*** | -0.081*** | -0.077*** | | | |
| | (0.011) | (0.011) | (0.010) | | | |
| Post | -0.007*** | -0.007*** | -0.008*** | | | |
| | (0.002) | (0.002) | (0.002) | | | |
| Post X Failed 50% previous year | -0.074*** | -0.076*** | -0.077*** | | | |
| | (0.023) | (0.021) | (0.020) | | | |
| Constant | 0.982*** | 0.672*** | 0.640*** | | | |
| | (0.001) | (0.034) | (0.035) | | | |
| N | 39,151 | 39,151 | 39,151 | | | |
| R-squared | 0.091 | 0.200 | 0.204 | | | |
| Entry cohort | No | Yes | Yes | | | |
| On NSFAS previous year | No | Yes | Yes | | | |
| On GAP previous year | No | Yes | Yes | | | |
| Cumulative GPA from previous year | No | Yes | Yes | | | |
| Courses taken in previous year | No | Yes | Yes | | | |
| Female, population group indicator | No | No | Yes | | | |
| School's authority under apartheid | No | No | Yes | | | |

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|------------------------------------|----------------------------------|-----------|-----------|--|--|--|--|
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Re-enrolment by whether passed 50% and previous year's NSFAS funding



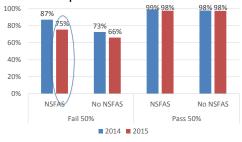
| | Dependent Variable: Re-enrolment | | | | |
|---|----------------------------------|-----------|-----------|--|--|
| Failed 50% | -0.263*** | -0.113*** | -0.109*** | | |
| | (0.014) | (0.013) | (0.013) | | |
| Post | -0.006*** | -0.006*** | -0.008*** | | |
| | (0.002) | (0.002) | (0.002) | | |
| On finaid in previous year | 0.008*** | 0.023*** | 0.012*** | | |
| | (0.002) | (0.002) | (0.002) | | |
| Post X On finaid previous year | -0.003 | -0.004 | -0.002 | | |
| | (0.004) | (0.004) | (0.004) | | |
| Post X Failed 50% previous year | -0.051* | -0.050** | -0.051** | | |
| | (0.028) | (0.025) | (0.025) | | |
| Post X On finaid previous year | 0.163*** | 0.102*** | 0.102*** | | |
| | (0.021) | (0.019) | (0.019) | | |
| Post X Failed 50% X On finaid previous year | -0.082* | -0.088** | -0.086** | | |
| | (0.046) | (0.043) | (0.043) | | |
| Constant | 0.981*** | 0.684*** | 0.650*** | | |
| | (0.001) | (0.034) | (0.035) | | |
| N | 39.151 | 39.151 | 39.151 | | |
| R-squared | 0.099 | 0.202 | 0.207 | | |
| Entry cohort | No | Yes | Yes | | |
| Cumulative GPA from previous year | No | Yes | Yes | | |
| Courses taken in previous year | No | Yes | Yes | | |
| Female, population group indicator | No | No | Yes | | |
| School's authority under apartheid | No | No | Yes | | |

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| School's authority under apartheid | No | No | Yes |

The impact of credit rationing on reenrollment rates at UCT

- Those students not on NSFAS experienced a 5.5% point decreased in re-enrollment as a result of the policy change.
- Those students on NSFAS experienced an additional 7% point decrease in re-enrollment.
 - In total a 13 % decrease in re-enrollment among NSFAS funded students.
- Yet, the majority of affected students continued to re-enroll without financial aid.
- Suggests that credit constraints are binding on the decision to re-enroll, but only for a relatively small proportion of the students who were affected by the change in the policy.

Re-enrolment by prior NSFAS and pass50% status



Conclusions, further work and limitations

- Several important and complex policy issues:
 - National budget to NSFAS, which students to fund given budgetary constraints, educational attainment, student debt.
 Sustainability of Higher Ed. Institutions (Austerity)
 - Sustainability of Higher Ed. Institutions (Austerity)
 - Unpacking why students are not passing and what part financial aid is playing in this
 - Political constraints (Disruptions)
- We need to unpack how those student who lost financial aid, continued to study and their likelihood of graduation.
- Limitation behaviour of UCT students are probably not representative of the SA student population at large.

Thank you

Additional slides

Financial Aid

- Students reenrolled without funding in 2015
- If passed 75% of courses at the end of the year their debt was relieved via the VC's appeal process
- 23% (18 of the 78 students) managed to meet this criteria

| | l | Entering | on finan | cial aid | |
|--------------|-------|----------|----------|----------|------|
| | 2010 | 2011 | 2012 | 2013 | 2014 |
| | | | | | |
| # entering | 643 | 595 | 593 | 603 | 598 |
| Dropout in y | ear: | | | | |
| 2 | 7% | 10% | 8% | 6% | 10% |
| 3 | 7% | 7% | 8% | 7% | |
| 4 | 9% | 7% | 9% | | |
| 5 | 6% | 5% | | | |
| 6 | 3% | | | | |
| | | | | | |
| Total | 32% | 29% | 25% | 13% | 10% |
| | | | | | |
| Graduate in | year: | | | | |
| 1 | 0% | 0% | 0% | 0% | 0% |
| 2 | 0% | 0% | 0% | 0% | 0% |
| 3 | 13% | 15% | 12% | 14% | |
| 4 | 23% | 26% | 25% | | |
| 5 | 20% | 16% | | | |
| | | | | | |
| Total | 55% | 56% | 38% | 14% | 0% |

| | Ent | ering wi | thout fin | ancial ai | d |
|--------------|-------|----------|-----------|-----------|------|
| | 2010 | 2011 | 2012 | 2013 | 2014 |
| | | | | | |
| # entering | 3033 | 3019 | 3336 | 3134 | 3184 |
| Dropout in y | ear: | | | | |
| 2 | 7% | 7% | 8% | 7% | 7% |
| 3 | 4% | 4% | 4% | 5% | |
| 4 | 4% | 4% | 5% | | |
| 5 | 3% | 2% | | | |
| 6 | 1% | | | | |
| | | | | | |
| Total | 19% | 17% | 17% | 12% | 7% |
| | | | | | |
| Graduate in | year: | | | | |
| 1 | 0% | 0% | 0% | 0% | 0% |
| 2 | 0% | 0% | 0% | 1% | 0% |
| 3 | 27% | 25% | 24% | 25% | |
| 4 | 32% | 35% | 32% | | |
| 5 | 13% | 12% | | | |
| | | | | | |
| Total | 73% | 72% | 57% | 25% | 0% |
| | | | | | |

| | A | | Ente | ering On Financial Aid | | | Entering without Financial Aid | | | |
|--------------------------------|-------------|-------|----------|------------------------|------------|---------|--------------------------------|---------|-----------|---------|
| | | | Passed ! | 50% in | Didn't Pa | ss 50% | Passed | 50% in | Didn't Pa | |
| | | | end of 1 | st year | end of fir | st year | end of 1 | st year | end of fi | rst yea |
| | Mean | | Mean | п | Mean | | Mean | | Mean | |
| Individual characteristics: | | | | | | | | | | |
| Female | 0.539 | 18651 | 0.553 | 2625 | 0.475 | 360 | 0.545 | 14570 | 0.454 | 105 |
| English Home language | 0.405 | 18761 | 0.197 | 2669 | 0.182 | 363 | 0.446 | 14625 | 0.432 | 105 |
| SA citizen | 0.860 | 18761 | 0.979 | 2669 | 0.989 | 363 | 0.840 | 14625 | 0.796 | 105 |
| SA born | 0.519 | 18761 | 0.562 | 2669 | 0.672 | 363 | 0.507 | 14625 | 0.509 | 105 |
| African | 0.312 | 18671 | 0.627 | 2632 | 0.701 | 361 | 0.245 | 14581 | 0.318 | 105 |
| Coloured | 0.143 | 18671 | 0.214 | 2632 | 0.208 | 361 | 0.126 | 14581 | 0.169 | 105 |
| Indian | 0.089 | 18671 | 0.052 | 2632 | 0.036 | 361 | 0.096 | 14581 | 0.107 | 105 |
| White | 0.338 | 18671 | 0.086 | 2632 | 0.033 | 361 | 0.396 | 14581 | 0.260 | 105 |
| Other | 0.118 | 18671 | 0.021 | 2632 | 0.022 | 361 | 0.136 | 14581 | 0.147 | 105 |
| Matriculation characteristics: | | | | | | | | | | |
| Matriculated pre 2008 | 0.021 | 18173 | 0.035 | 2659 | 0.069 | 361 | 0.015 | 14090 | 0.043 | 105 |
| Old school authority (unde | r apartheid |) | | | | | | | | |
| Cape Educ Dept | 0.479 | 13016 | 0.324 | 2123 | 0.235 | 285 | 0.519 | 9912 | 0.476 | 105 |
| HoA | 0.004 | 13016 | 0.002 | 2123 | 0.000 | 285 | 0.004 | 9912 | 0.020 | 105 |
| HoD | 0.006 | 13016 | 0.008 | 2123 | 0.007 | 285 | 0.006 | 9912 | 0.005 | 105 |
| HoR | 0.052 | 13016 | 0.122 | 2123 | 0.116 | 285 | 0.036 | 9912 | 0.048 | 105 |
| DET | 0.124 | 13016 | 0.327 | 2123 | 0.474 | 285 | 0.069 | 9912 | 0.137 | 105 |
| Joint Matric Board | 0.000 | 13016 | 0.000 | 2123 | 0.000 | 285 | 0.001 | 9912 | 0.000 | 102 |
| Natal Edu Dept | 0.165 | 13016 | 0.077 | 2123 | 0.074 | 285 | 0.187 | 9912 | 0.162 | 274 |
| OFS Edu Dept | 0.012 | 13016 | 0.008 | 2123 | 0.007 | 285 | 0.013 | 9912 | 0.008 | 274 |
| Transkei Edu Dept | 0.010 | 13016 | 0.024 | 2123 | 0.021 | 285 | 0.007 | 9912 | 0.011 | 274 |
| Transvaal Edu Dept | 0.118 | 13016 | 0.062 | 2123 | 0.035 | 285 | 0.134 | 9912 | 0.102 | 274 |
| International | 0.028 | 13016 | 0.046 | 2123 | 0.032 | 285 | 0.024 | 9912 | 0.033 | 274 |
| Matric score | 138.326 | 10946 | 144.403 | 1500 | 119.280 | 244 | 139.745 | 8521 | 110.451 | 274 |
| Matric maths % | 78.092 | 9989 | 72.780 | 1602 | 73.066 | 182 | 79.553 | 7681 | 74.615 | 666 |
| Matric English % | 74.700 | 9754 | 70.515 | 1472 | 69.352 | 236 | 75.867 | 7500 | 72.129 | 666 |
| Entrance marks: | | | | | | | | | | |
| Amittance score | 422.653 | 9983 | 426.41 | 1549 | 374.94 | 175 | 424.83 | 7749 | 396.85 | 484 |
| NBT score | 69.951 | 14812 | 60.765 | 2214 | 58.583 | 278 | 72.089 | 11497 | 68.425 | 666 |
| NBT QL score | 63.993 | 14814 | 52.135 | 2214 | 48.217 | 277 | 66.840 | 11501 | 61.043 | 666 |
| NBT math score | 57.316 | 11849 | 48.010 | 1634 | 46.092 | 196 | 59.484 | 9422 | 51.871 | 666 |

The data

| | | Sample | | Final yea | r imputed |
|------------|-------------|-----------|---------------------------|---------------|------------------|
| | # Students | # Obs all | # Obs Financial Aid | # Students | % of Students |
| All | 18761 | 47575 | 6454 | 8089 | 43.1% |
| Entry coh | ort: | | | 1 | |
| 2010 | 3680 | 13392 | 1710 | 3199 | 86.9% |
| 2011 | 3623 | 12268 | 1601 | 2591 | 71.5% |
| 2012 | 3934 | 10929 | 1414 | 1522 | 38.7% |
| 2013 | 3742 | 7188 | 1090 | 491 | 13.1% |
| 2014 | 3782 | 3798 | 639 | 286 | 7.6% |
| Year of re | eenrolment: | | | i i | |
| 2011 | | 3645 | 578 | 250 | |
| 2012 | | 7001 | 1063 | 442 | |
| 2013 | | 10388 | 1459 | 1488 | |
| 2014 | | 12509 | 1477 | 2557 | |
| 2015 | | 14032 | 1877 | 3352 | |

Historical success rate of students by 50% pass criteria

- At the end of each year a student receives an academic standing code – this determines whether they are eligible to continue or graduate
 - We also know whether they have passed or failed 50% of their courses
- The following year (before the policy change) they could:
 - Enrol on financial aid
 - Enrol without financial aid
 - Dropout
- Therefore by the end of year 3, there are 52 different pathways a student starting on NSFAS may have taken

Which pathways were most prevalent?

- Using pre-2014 cohorts who start year 1 on NSFAS, at the end of year 3:
- Pass 50% all the way through (67%):
 - 50% have remained on NSFAS
 - 8% were only on NSFAS for the first year
 - 7% were on NSFAS in years 1 and 2 only
 - 2% were on NSFAS in years 1 and 3 only
- Dropped out (having been on NSFAS) (10%):
 - 6% dropped out after failing 50% in year 1
 - 3% dropped out after failing 50% in year 2
 - 1% dropped out after failing 50% in years 1 and 2

Which pathways were most prevalent?

- Remaining enrolled on NSFAS but fail 50% along the way (13%):
 - 6% Pass Pass Fail
 - 2% Pass Fail Pass
 - 2% Pass Pass Fail
 - 2% Fail Pass Pass
 - 1% Fail Pass Fail
 - 0% (3 students) Fail Fail Pass
- Remaining 10% spread over other pathways, 1% or less per pathway.

The change in the policy for renewed funding at UCT in 2015

2014 Undergraduate Students

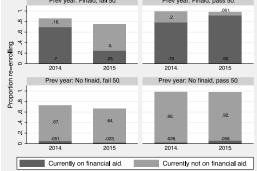
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Students that are academically excluded are automatically ineligible for funding renewal

Students must not have exceeded years of study which is the minimum duration of the programme plus 2 years (N+2)

Figure 1: Re-enrolment by financial aid status and whether passed 50% of courses Prev year: Finaid, fail 50 Prev year: Finaid, pass 50



A brief overview of NSFAS

- NSFAS is primarily a loan but up to 40% of the award may be converted into a bursary depending on results
 - Pass 100% 40% to bursary
 - Pass 75% 30% to bursary
- Pass 50% 20% to bursary
- N+2 maximum years of funding
- Final year program converts full loan amount in final year of study to a bursary
- Repayment and interest (at inflation) begins once student is employed and earning above R30 000
 - Repayment rate of 3% (R900 per year)
 - Up to a max of 8% once earn more than R63 100.
- Repayment levels have, to date, been low.

The decision to enrol

- Our models implicitly assume that students are dynamically rational, and decide to re-enrol if it is both feasible and makes economic sense.
- · Feasibility:
 - The availability of alternative funding sources if they are no longer eligible for NSFAS/GAP (Family loans, scholarships)
- Dynamic rationality:
 - This requires an understanding of the cost of re-enrolment
 - The likely probability of subsequently graduating
 - The payoffs to being a graduate as compared to not finishing college

Empirical strategy – DD and DDD

- $Y_{i} = \alpha_{0} + \beta_{1}(fail50) + \beta_{2}(post) + \beta_{3}(post^{*}fail50) + \delta X_{i} + \varepsilon_{i}$
- The key parameter that we are interested in is β₃
- $\begin{array}{ll} Y_{i} = & \alpha_{0} + \beta_{1}(fiail50) + \beta_{2}(finaid) + \beta_{3}(finaid*fail50) \\ & + \beta_{4}(post) + \beta_{5}(post*fail50) + \beta_{6}(post*finaid) \\ & + \beta_{7}(post*finaid*fail50) + \delta X_{i} + \epsilon_{i} \end{array}$
- The key parameter that we are interested in is β₇
- It reflects the additional change in re-enrolment rates in the 'post' period (i.e. 2015) relative to the previous periods (i.e. before the rule change), amongst the subset of students who were already on financial aid and who had failed more than 50% of their courses in the preceding year.

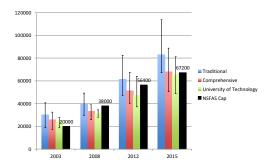
Non NSFAS

| | Passed 50% | | | | Failed 50% | | | |
|------|--------------|------|-------------------|------|------------|---------|-------|-------|
| | Re-enrolling | | rolling On Finaid | | Re-en | rolling | On F | inaid |
| | % | # | % | # | % | # | % | # |
| 2011 | 0.975 | 2773 | 0.024 | 2703 | 0.647 | 136 | 0.057 | 88 |
| 2012 | 0.983 | 5343 | 0.026 | 5252 | 0.721 | 258 | 0.081 | 186 |
| 2013 | 0.981 | 7307 | 0.026 | 7167 | 0.756 | 352 | 0.079 | 266 |
| 2014 | 0.980 | 7694 | 0.019 | 7543 | 0.729 | 373 | 0.051 | 272 |
| 2015 | 0.975 | 8287 | 0.043 | 8082 | 0.666 | 407 | 0.030 | 271 |

Re-enrolment and re-enrolment on financial aid by year - NSFAS funded

| | Passed 50% | | | | | | Failed | d 50% | |
|------|------------|---------|-------|-----------|--|-------|---------|-------|-------|
| | Re-en | rolling | On F | On Finaid | | Re-en | rolling | On F | inaid |
| | % | # | % | # | | % | # | % | # |
| 2011 | 0.988 | 552 | 0.863 | 548 | | 0.900 | 50 | 0.711 | 45 |
| 2012 | 0.993 | 992 | 0.839 | 984 | | 0.894 | 85 | 0.934 | 76 |
| 2013 | 0.992 | 1292 | 0.879 | 1280 | | 0.931 | 130 | 0.876 | 121 |
| 2014 | 0.991 | 1512 | 0.790 | 1499 | | 0.871 | 124 | 0.852 | 108 |
| 2015 | 0.991 | 1519 | 0.943 | 1485 | | 0.755 | 151 | 0.351 | 114 |

Average Full Cost of Study



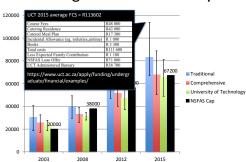
The National Student Financial Aid Scheme (NSFAS)

Demand > Supply

- Government's contribution increased over ten fold between 2005 and 2015 to 8.8 billion
- In 2014 around 200 000 university students were funded, about 25% of total HEI enrolments.
- Increasing fees have resulted in rapidly increasing FCS
- 31% of eligible students do not receive funds and many others do not receive FCS

Financial aid at UCT

- Commitment to cover all students in need of financial support who are academically eligible at FCS
 - combination of NSFAS and GAP cover loans and institutional bursaries
- Individuals with family incomes up to about R230 000 were eligible for NSFAS
 - Much higher threshold than many other institutions e.g. around R120 000 at Walter Sisulu University
- Up to R550 000 eligible for Gap cover

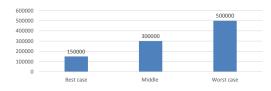


Average Full Cost of Study

UCT full cost of study example – NSFAS example

| Course Fees | R48 000 |
|---|----------|
| Catering Residence | R42 000 |
| Catered Meal Plan | R17 300 |
| Incidental Allowance (eg. toiletries,airtime) | R 1 000 |
| Books | R 3 300 |
| Total costs | R111 600 |
| Less Expected Family Contribution | R 1 100 |
| NSFAS Loan Offer | R71 800 |
| UCT Administered Bursary | R38 700 |

Performance and accumulating debt: Simulated example, 4 year degree starting 2016



Best case: Student who passes 100% of courses all the way

Middle case: Student fails a few courses along the way but manages to complete in N+2 years

Worst case: Student who passes <50% of courses in each year and does not qualify in N+2 years

Performance and accumulating debt: NSFAS rules incentivize completion

- Time to repay debt assume get a job within a year at 200 000 per annum that increases at 8%
 - Best case : 8 years starting out with take home pay of R16 000 per month
 - Middle case: 16 years starting out take home pay of R15 500 per month
- Other cases without qualifying employment? Life time debt burden?